

REPORT
ON THE
AGRICULTURAL INSTRUCTION ACT
1916-1917

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OTTAWA
J. DE LABROQUERIE TACHÉ
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1918

REPORT

AGRICULTURAL INSTRUCTION ACT

1916-1917

REPORT OF THE



U. S. DEPARTMENT OF AGRICULTURE
BUREAU OF AGRICULTURAL INSTRUCTION
WASHINGTON, D. C.

1917-1918

OTTAWA, December 15, 1917.

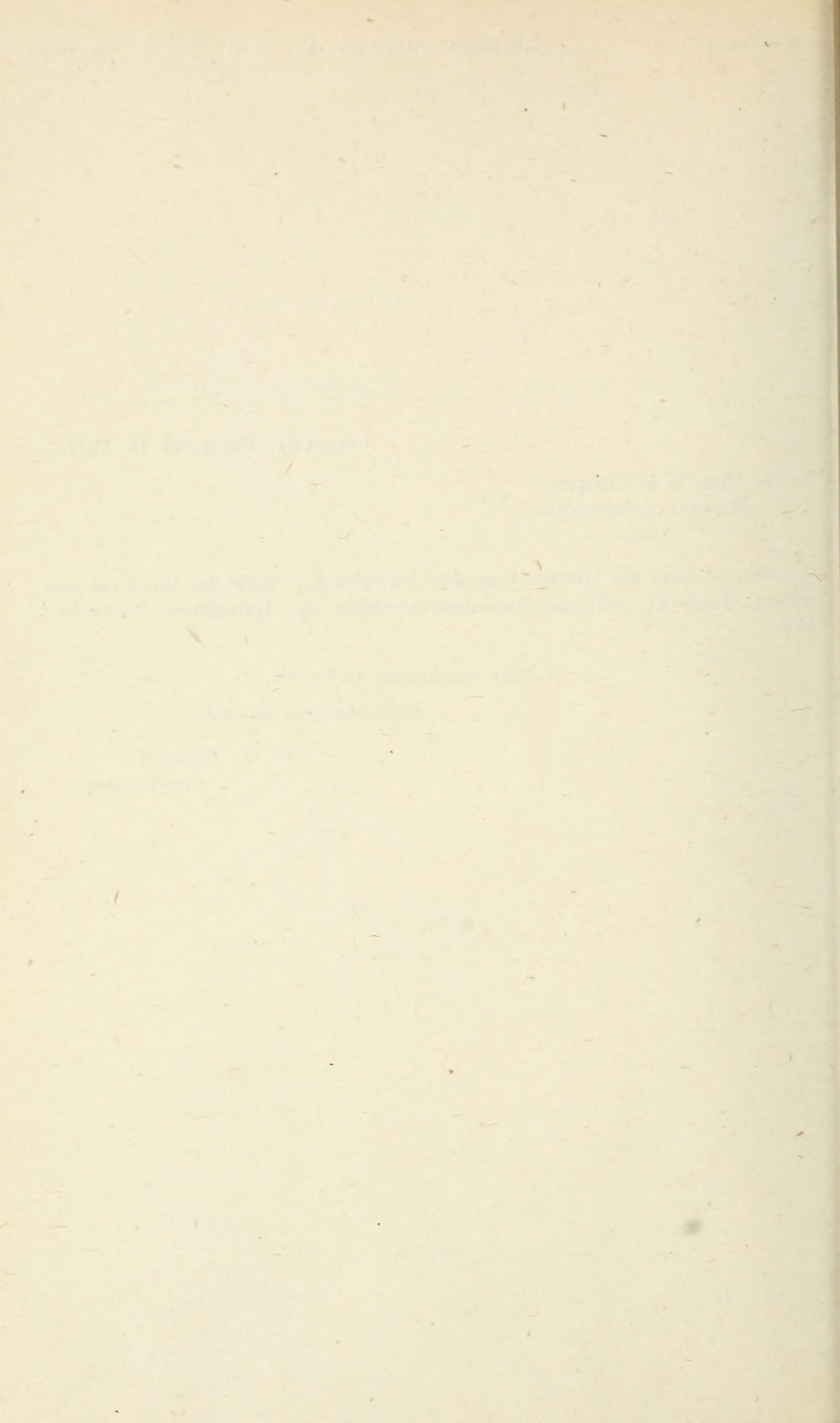
To the Hon. T. A. CRERAR,
Minister of Agriculture,
Ottawa.

SIR,—I have the honour to present herewith my report for the fiscal year ending March 31, 1917, as Commissioner under the Agricultural Instruction Act.

I have the honour to be, sir,

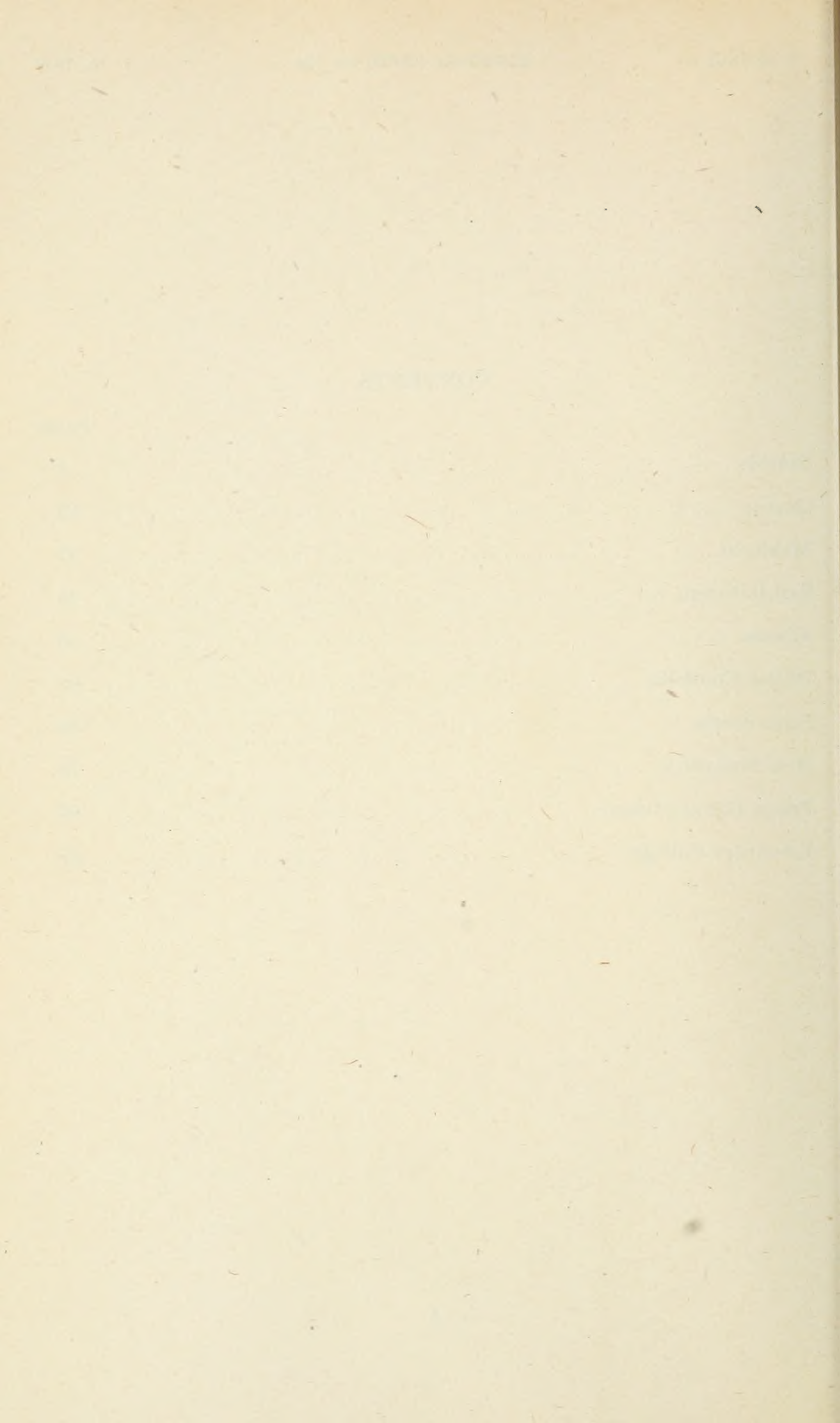
Your obedient servant,

W. J. BLACK,
Commissioner.



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REPORT

ON THE

AGRICULTURAL INSTRUCTION ACT

FOR THE FISCAL YEAR 1916-17.

Tabled in pursuance of Section 8 of the above named Act.

DOMINION GRANT OF 1916-17.

DATES OF PAYMENTS AND AMOUNTS PAID TO PROVINCES.

Province.	Date.	1st Half.	Date.	2nd Half.
		\$ cts.		\$ cts.
Nova Scotia.....	June 23, '16..	37,429 64	Sept. 8, '16..	37,429 64
Saskatchewan.....	Sept. 18, '16..	37,434 88	Aug. 28, '17..	37,434 88
New Brunswick.....	June 15, '16..	29,604 80	Oct. 23, '16..	29,604 80
British Columbia.....	July 20, '16..	31,866 25	Jan. 12, '17..	31,866 25
Manitoba.....	Aug. 17, '16..	29,383 60	Nov. 22, '16..	29,383 60
Alberta.....	June 24, '16..	30,873 61	Dec. 13, '16..	30,873 61
Prince Edward Island.....	June 17, '16..	15,221 87	Nov. 22, '16..	15,221 88
Quebec.....	June 29, '16..	121,606 12	Nov. 22, '16..	121,606 12
Ontario.....	June 8, '16..	125,579 22	Jan. 12, '17..	150,579 23
	Oct. 6, '16..	25,000 00		

VETERINARY COLLEGES.

Ecole de Médecin et de Science Vétérinaire de Montréal.....\$ 5,714.28
• (Paid on 4th January, 1917.)

ONTARIO.

AGREEMENT 1916-17.

1. District Representative work including clerical or other assistance in connection with the administration.....	\$120,000 00
2. Agricultural College:—	
(a) Capital expenditure.....	\$55,000 00
(b) Salaries and expenses of additions to staff and maintenance.....	14,000 00
	<hr/>
3. O.A.C. Short Courses, travelling and living expenses of winners of Acre Profit and Live Stock competitions.....	69,000 00
4. To encourage agriculture, manual training as applied to work on the farm and Domestic Science in High, Public, Separate and Continuation Schools, and in Universities, to be available for grants and for travelling and living expenses of teachers and others in attendance at Short Courses or other educational gatherings, in addition to services, expenses and equipment, and to be paid out on the recommendation of the Department of Education.....	1,800 00
5. Educational work in connection with the marketing of farm products, including organization of co-operative societies, collection, printing and distribution of information on current prices and systems of marketing.....	26,000 00
6. Stock and Seed judging Short Courses and Institute Lecture Work.....	5,000 00
7. Drainage Work.....	2,000 00
8. Demonstration and instruction in vegetable growing.....	10,000 00
9. Demonstration work on soils.....	4,000 00
10. Work in Beekeeping.....	4,200 00
11. Dairy Demonstrations.....	1,500 00
12. Fruit Work:—	1,658 45
(a) Experimental work at Vineland Horticultural Experimental Station.....	
(b) Demonstrations with vegetables and hardy fruits in New Ontario..	\$2,500 00
	3,500 00
	<hr/>
13. To provide for Agricultural School, including purchase of land, construction of buildings, purchase of equipment, and other services and expenses pertaining thereto, including operation and maintenance of the same.....	6,000 00
	50,000 00
	<hr/>
	\$301,158 45

DISTRICT REPRESENTATIVE WORK.

The work of the District Representatives has developed into the most important branch of the work of the Agricultural Department. During the past year there were 45 offices in as many different counties or districts. Formerly it was the policy of the Department to have the offices in charge of a graduate of the Ontario Agricultural College with either an undergraduate or graduate as Assistant. In view of the large number of enlistments, 25 of the men engaged in this work having responded to the call to the colours, it was decided that it would be impossible to attempt to continue Assistants in all of the offices. Hence it was decided that Assistants would be supplied only in the larger counties and that, in the other counties the work of the District Representatives might be supplemented by local help. In most cases some young farmers who have taken a Short Course at the College or at a District Representative Agricultural Class were utilized in plot inspection, helping at School Fairs or the other phases where extra help was needed for short periods. Necessarily a great deal of attention has been devoted to the campaign for increased production so necessary under war conditions. In addition to giving information on all kinds of subjects, they have rendered special assistance in the matter of distribution of seed and distribution of labour. The offices of the District Representatives have been designated as branches of the Labour Bureau so that farmers might apply locally, and if their requests could not be filled locally, they would be passed on to the central office. In addition to this special work, the regular work of the District Representatives has been well maintained. One of the important features of this work has been that devoted to interesting the boys and girls on the farm in

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farm matters and imparting information as to better methods. One of the most effective means of accomplishing this has been the School Fair, and the following figures will show that the School Fair movement has developed in spite of the shortage of help and the difficulties incidental to war conditions:—

	1915	1916
Number of fairs held.....	234	275
Number of schools included.....	2,291	2,620
Number of children taking part.....	48,386	60,262
Attendance at fairs.....	157,266	178,246
Number of entries.....	116,236	113,263
Number of home plots.....	51,243	55,947

In the matter of Agricultural Classes the War has had a greater effect, as a considerable number of those who would otherwise attend have volunteered for active service or have been required to stay at home on account of the shortage of labour. The total attendance last winter at these Classes extending over four weeks was in the neighbourhood of 800. Out of these Classes have grown the Junior Farmers' Improvement Associations, an organization to maintain and carry on the interest developed in the Classes by a series of experiments and the Inter-County Live Stock Judging Competitions. In connection with the latter it may be explained that a Team comprising three chosen from the Classes represents the County at the Winter Fair at Guelph for Western Ontario to compete for a cup donated by the late Hon. J. S. Duff, and Teams similarly chosen from the Counties in Eastern Ontario meet at Ottawa to compete for a cup donated by Peter White, K.C. The winners, which last year were York and Dundas Counties respectively, met in Toronto early in February during the meeting of the Live Stock Associations and competed for a Provincial Championship Cup donated by the Union Stock Yards. This was won by Dundas County, which has the honour of holding the first Provincial Championship.

Other work carried on by District Representatives included Home Vegetable Garden Contests, Acre Profit and Live Stock Competitions, campaign against the smut menace, drainage surveys, demonstration orchards, alfalfa experiments, addressing educational and co-operative gatherings of various kinds, and a large variety of other very useful work.

WOMEN'S INSTITUTES.

Although no appropriation was included in last year's Federal Grant for Women's Institutes, considerable work was done with the balance left from the previous agreement. This was very largely spent in providing speakers for Women's Institute meetings held throughout the Province. The special feature being developed in this connection is a two weeks' domestic science course for girls carried on much the same as the four weeks' courses in agriculture for boys. Very frequently, but not always, this is held at the same time and place as the boys' course, and the community of interest adds to the success of both courses. Last winter one of the girls' classes joined the boys' class in an excursion to Toronto where they visited the offices of the Department of Agriculture, after which the girls visited the Technical School and places for domestic science training, while the boys visited the Stock Yards and other similar points of agricultural interest. Last winter some 80 of these Classes were held throughout the Province with an attendance of over 2,500.

DRAINAGE WORK.

Two distinct lines of drainage work have been carried on. The availability of additional funds has greatly increased the usefulness of the work directed from the Ontario Agricultural College, which consists in making surveys,

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supplying blue prints and holding demonstrations to give instruction as to the laying of tile. The demand for this class of work has shown a great increase, and the fact that over 150 ditching machines have been brought into the Province has made possible the laying of a great deal of tile in spite of the labour shortage, which would otherwise be a great handicap.

The other phase of the drainage work has been that carried on in the Algoma and Rainy River Districts. Labour for digging seemed to be one of the chief obstacles in the newer districts and the work did not appear to be sufficient to warrant the purchasing of a ditching machine or tile outfit on a commercial basis. In 1915, it was decided that practical assistance could be rendered by purchasing an outfit and demonstrating the possibilities of drainage in this way, doing the work on a basis of cost. This proved so successful that it was extended by the purchase of a machine for the Rainy River District in 1916, both machines being kept busy last season much to the advantage of the respective districts.

DAIRY DEMONSTRATIONS.

In view of the importance of improving the market quality of Ontario dairy products, it was decided that certain work should be undertaken in 1916 with a view to laying the foundation for a system of grading. A special man was employed and was engaged in making tests of samples of butter accessible in a number of the cold storages. The information he obtained in this way as to methods of marketing was utilized in giving instructions to the different creamerymen as to how improvements could be effected. It also placed the Department in possession of information as to the points of strength and weakness in the Ontario product, and as a consequence, it was decided to adopt a system of butter grading for the Province. This preliminary educational work having accomplished its purpose, the cost of butter grading will in future be carried under the regular appropriations of the Department.

KEMPTVILLE AGRICULTURAL SCHOOL.

During the past year an announcement was made by the Minister of Agriculture for Ontario to the effect that the Department had decided to establish an Agricultural School in Eastern Ontario and that the village of Kemptville had been selected as the site. It is the intention that this School shall offer short courses and a two year course in Agriculture, and shall serve the eastern section of the Province, which is not now so served. The work of the Department in connection with School Fairs and Agricultural Classes has apparently created a demand for an institution of this character. Some 200 acres of land were purchased at Kemptville, a town well located on the railway and convenient to several Eastern Ontario Counties. This land will be operated as part of the School in order to give practical emphasis to the principles taught. Purchases of live stock and equipment have also been made, but the main building will not be constructed until the conclusion of the war.

SHORT COURSES, ONTARIO AGRICULTURAL COLLEGE.

In pursuance of the policy of former years, the District Representatives conducted Acre Profit Competitions and Live Stock Profit Competitions. The idea is to not only demonstrate the possibilities of an acre of land or a few head of stock, but also to interest the boys in this practical way. It has not been thought sufficient to award a prize merely for the largest yields unless the largest yields were accompanied by a careful accounting which meant also the largest

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profits. The prize awarded to the winner in these competitions in the different counties is free travelling and living expenses to Guelph for the two weeks' Short Course in Live Stock and Seed Judging. The prize is, therefore, equally as educational as the competition.

VEGETABLE WORK.

It is now recognized by those engaged in the vegetable growing industry that the appointment of a Vegetable Specialist under The Agricultural Instruction Act a few years ago has proven one of the best steps in the interests of the vegetable industry in the Province. During the past year the Vegetable Specialist carried on further work in connection with the control of celery and onion blight and the cabbage root maggot. This work consisted both of making practical experiments and conveying the information to the growers. During the winter months conferences were held in the different vegetable growing centres. These were made very practical and helpful and have been an important educational factor. During the past summer about 1,500 feet of film showing various phases of the work was prepared, and its display proved a most helpful feature of the conferences referred to.

DEMONSTRATION WORK ON SOILS.

This work is carried on under the Professor of Chemistry at the Ontario Agricultural College who directs a field staff during the summer months, visiting various sections of the Province and charting the different soil formations. Analysis of a large number of samples is also made and practical growing tests are carried on. The work with reference to Western Ontario has been practically completed, and a publication is being issued giving this information to the public. The work will be continued in Eastern Ontario.

FRUIT DEMONSTRATIONS IN UPPER ONTARIO.

In 1915 it was decided that it would be good work to demonstrate the usefulness of certain varieties of tender or semi-tender fruits in Upper Ontario. In order to accomplish this with a minimum outlay, arrangements were made with the Provincial Secretary's Department of the Government by which a portion of the Farm owned by them and operated as a Prison Farm near Fort William should be at the disposal of the Department. The Department appointed a competent man to take charge of the work, and preliminary efforts have laid the foundation for most useful work in the newer sections.

CO-OPERATION AND MARKETING.

The work of the Branch devoted to co-operation and marketing has been entirely of an educational nature. The efforts of the Director and his assistants, who so far are only temporarily employed, have been confined very largely to giving instruction on the marketing of different products. A number of new associations have been organized, but considerable time has been spent in placing organizations already in existence on a proper footing.

AGRICULTURAL EDUCATION.

The Inspector of Elementary Agricultural Classes, Dr. J. B. Dandeno, reports that in 1916, 752 Public and Separate Schools qualified for grants for the teaching of Agriculture. The requirements are, teaching in class for at

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least one hour a week throughout the school year and home or school gardens. The equipment needed is paid for in the form of grants to the Boards.

The teaching of Agriculture is recognized only in Forms III, IV, and V, and in these classes there were, in 1916, over 13,000 pupils. The cost is about 75 cents a pupil per year. The Inspectors are required to pay special attention to the teaching of Agriculture, and an allowance is made them for the work. Though much of the teaching is as yet by no means what might be desired, yet most of the work is very creditable and some exceedingly good.

Twenty-one Secondary Schools conducted classes in Agriculture in 1916 with about 600 pupils. Allowances are made to Boards for equipment and to teachers for conducting the work.

The cost of instruction in Agriculture in the Normal Schools is met mainly from Provincial funds, but the Federal grant is drawn upon to provide special equipment. In 1916, 196 teachers attended the Summer School courses at the Ontario Agricultural College. Of these 153 attended the course leading to an Elementary certificate, and 43 attended the Intermediate certificate course. Students are allowed \$25 for maintenance and travelling expenses, conditional on their teaching Agriculture throughout the year following the course. In 1917 and thereafter, a short course in Farm Mechanics, of at least four weeks, will be given to teachers who are qualifying to teach Agriculture in the High Schools.

OFFICERS PROVIDED BY THE DOMINION GRANT.

(a) Officers, regularly employed, whose salaries are paid wholly from the Agricultural Instruction Grant:—

Ontario Agricultural College, Guelph—

- Lecturer in Poultry, F. N. Marcellus, B.S.A.
- Lecturer in Farm Management, A. Leitch, B.S.A.
- Lecturer in Rural Sociology, A. Maclaren, B.S.A.
- Lecturer in Geology and Soils, John Woodward.
- Lecturer in Physics, J. R. Spry, B.S.A.
- Soil Analyst, S. R. Curzon, B.S.A.
- Demonstrator in Horticulture, H. S. Fry, B.S.A.
- Lecturer in Chemistry, C. W. Stanley.
- Lecturer in Animal Husbandry, J. P. Sackville, B.S.A.
- Poultry Specialist, G. R. Wilson.
- *Horticulturist, G. J. Culham, B.S.A.
- *Assistant in Soil Work, F. Bryant.
- Assistant in Soil Work, D. Johns.

Department of Agriculture, Toronto—

- Stenographers, four.
- Director, Co-operation and Markets Branch, F. C. Hart, B.S.A.
- Assistant, Co-operation and Markets Branch, J. B. Fairbairn, B.S.A.
- District Representative Supervisor, R. S. Duncan, B.S.A.
- Assistants in Vegetable Work, Frank F. Reeves, Geo. Madden, Richard Aymer.

Department of Agriculture, Outside Service—

- Corn Specialist, P. L. Fancher, B.S.A., Chatham.
- Plant Breeding Specialist, W. R. Leslie, Fort William.

Horticultural Experiment Station, Vineland, Ont.—

- Assistant Experimentalist, P. E. Culverhouse, B.S.A.
- In charge of Fruit Extension Work, O. J. Robb.

*On Active Service.

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Department of Education, Toronto—

Director of Elementary Agricultural Education, Dr. J. B. Dandeno.

Teacher of Domestic Art, Miss A. E. Robertson.

(b). Officers regularly employed, whose salaries are paid in part from the Grant.

Department of Agriculture, Outside Service—

Forty-five District Representatives.

ONTARIO.

SUMMARY STATEMENT, April 1, 1916, to March 31, 1917.

Classification.	Balance, April 1, 1916.	Grant.	Refunds.	Total Credits.	Expendi- ture.	Cr. Balance.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1 District Representatives.....	3,847 10	120,000 00	101 50	123,948 60	123,101 53	847 07
2. Ontario Agricultural College—						
(a) Capital expenditure.....	27,677 73	55,000 00	1,000 00	83,677 73	28,338 01	55,339 72
(b) Salaries and expenses of addi- tions to staff and maintenance	2,378 68	14,000 00		16,378 68	13,022 82	3,355 86
3. O.A.C. Short Courses for winners of Acre Profit and Live Stock Com- petitions.....	115 23	1,800 00		1,915 23	1,890 75	24 48
4. To encourage Agriculture, Manual Training and Domestic Science in Schools.....	11,608 01	26,000 00		37,608 01	14,844 67	22,763 34
5. Marketing of Farm Products.....	2,233 67	5,000 00		7,233 67	4,615 12	2,618 55
6. Stock and Seed Judging, Short Courses, etc.....	4,530 59	2,000 00	411 05	6,941 64	3,800 85	3,140 79
7. Drainage Work.....	10 34	10,000 00	2,085 00	12,095 34	10,439 73	1,655 61
8. Demonstrations in vegetable grow- ing.....	38 37	4,000 00		4,038 37	3,943 76	94 61
9. Demonstration work on soils.....		4,200 00		4,200 00	3,685 60	514 40
10. Bee-keeping.....	52 31	1,500 00		1,552 31	878 24	674 07
11. Dairy Demonstrations.....		1,658 45		1,658 45	1,519 87	138 58
12. Fruit Work—						
(a) Experimental Work, Vineland Station.....	868 23	2,500 00		3,368 23	2,107 00	1,261 23
(b) Demonstrations with veget- ables and fruits in New On- tario.....		3,500 00		3,500 00	1,138 25	2,361 75
13. To provide for Agricultural school..		50,000 00	185 00	50,185 00	21,603 66	28,581 34
	53,360 26	301,158 45	3,782 55	358,301 26	234,929 86	123,371 40
ADDITIONAL FROM 1915-16.						
Women's Institutes.....	5,045 27		132 81	5,178 08	5,007 32	170 76
Short Courses, Fall Fair Judges.....	427 59			427 59	59 85	367 74
Demonstrations in Live Stock and Poul- try.....	2,070 60		368 50	2,443 49	1,541 60	901 89
Transferred from Agric'l Aid account...			4 39			
Demonstrations in Fruit Growing.....	4,297 42			4,297 42	1,100 00	3,197 42
Lectures on Horticulture.....	224 20			224 20	213 18	11 02
Miscellaneous.....	3,663 00			3,663 00	2,401 77	1,261 23
	69,088 34	301,158 45	4,288 25	374,535 04	245,253 58	129,281 46

1.—DISTRICT REPRESENTATIVES.

Balance April 1, 1916.....	\$	3,847	10
Grant 1916-17, \$100,000.00, by transfer, \$20,000.00.....		120,000	00
Refunds credited to appropriation.....		101	50
		123,948	60
Expenditure to March 31, 1917.....		123,101	53
Balance March 31, 1917.....		847	07
Brant.....	\$	2,717	19
Bruce.....		2,444	03
Carleton.....		2,358	60
Dufferin.....		4,366	36
Dundas.....		2,432	57
Durham.....		2,975	50
Elgin.....		2,761	05
Essex.....		2,162	60
Frontenac.....		2,309	71
Fort William.....		1,270	83
Grenville.....		3,502	62
Glengarry.....		3,181	32
Gore Bay.....		2,158	53
Grey.....		2,729	26
Halton.....		1,666	71
Hastings.....		1,739	77
Haldimand.....		1,785	59
Kenora.....		1,661	21
Kent.....		2,806	07
Lambton.....		2,339	66
Lanark.....		2,180	38
Leeds.....		2,638	56
Middlesex.....		2,733	53
		\$56,921	65
Lennox.....	\$	2,498	82
Muskoka.....		2,057	28
Miscellaneous.....		17,553	70
New Liskeard.....		2,045	34
Northumberland.....		1,986	14
Norfolk.....		2,168	72
Ontario.....		3,042	43
Oxford.....		2,523	36
Prince Edward.....		2,744	39
Port Arthur.....		1,261	71
Peterboro.....		2,127	07
Peel.....		3,868	12
Rainy River.....		2,153	66
Renfrew.....		2,044	75
Sault Ste. Marie.....		1,826	58
Simcoe.....		2,781	08
Sudbury.....		1,910	89
Victoria.....		2,232	24
Waterloo.....		2,123	01
Welland.....		2,408	27
Wentworth.....		2,026	51
York.....		2,494	14
Cochrane.....		301	67
		\$	66,179 88
			56,921 65
		\$	123,101 53

2.—ONTARIO AGRICULTURAL COLLEGE.

(a) CAPITAL EXPENDITURE.

Balance April 1, 1916.....	\$	27,677	73
Grant, 1916-17.....		75,000	00
Refund credited to appropriation.....		1,000	00
		\$	103,677 73
By transfer to District Representatives.....		20,000	00
		\$	83,677 73
Expenditure to March 31, 1917.....		28,338	01
Balance, March 31, 1917.....	\$	55,339	72
Poultry Building,—			
Labour.....	\$	599	60
Material.....		299	42
		\$	899 02
Physics Buildings,—			
Labour.....		673	48
Material.....		1,123	91
Furnishings.....		1,498	93
Incidentals.....		37	59
			3,333 91
Chemistry Building,—			
Labour.....		899	30
Materials.....		2,497	33
Contracts.....		20,485	01
Incidentals.....		233	44
			24,105 08
		\$	28,338 01

In addition to finishing up work in connection with the Poultry Building and Physics Building, the main work carried on was the addition of a new wing to the Chemistry Building.

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(b) SALARIES AND EXPENSES OF ADDITIONS TO STAFF.

Balance, April 1, 1916.....	\$ 2,378 68
Grant, 1916-17.....	14,000 00
	<hr/>
	\$ 16,378 68
Expenditure to March 31, 1917.....	13,022 82
	<hr/>
Balance, March 31, 1917.....	\$ 3,355 86
	<hr/>
R. Bryant, Assist. in Drainage Work, services.....	\$ 720 00
G. J. Culham, Lecturer in Horticulture, services and expenses.....	835 00
S. R. Curzon, services.....	166 00
H. S. Fry, Lecturer in Horticulture, services and expenses.....	1,548 05
A. Leitch, Lecturer in Farm Management, services.....	1,841 00
J. P. Hales, Lecturer in Poultry, services.....	1,200 00
C. M. Laidlaw, Assist. in Drainage Work, services.....	93 95
F. N. Marcellus, Lecturer in Poultry, services.....	1,641 00
J. R. Spry, Lecturer, services and expenses.....	1,601 40
C. W. Stanley, services.....	200 00
J. P. Sackville, Lecturer in Animal Husbandry, services.....	1,241 00
J. Woodward, Lecturer in Chemistry, services and expenses.....	1,935 42
	<hr/>
	\$ 13,022 82
	<hr/>

3.—SHORT COURSES, O.A.C.

Balance, April 1, 1916.....	\$ 115 23
Grant, 1916-17.....	1,800 00
	<hr/>
	\$ 1,915 23
Expenditure to March 31, 1917.....	1,890 75
	<hr/>
Balance, March 31, 1917.....	\$ 24 48
	<hr/>
Travelling and living expenses of winners of competitions.....	\$ 1,835 75
Printing and Stationery.....	55 00
	<hr/>
	\$ 1,890 75
	<hr/>

4.—TO ENCOURAGE AGRICULTURE IN PUBLIC SCHOOLS.

Balance April 1, 1916.....	\$ 11,608 01
Grant, 1916-17.....	26,000 00
	<hr/>
	\$ 37,608 01
Expenditure to March 31, 1917.....	14,844 67
	<hr/>
Balance March 31, 1917.....	\$ 22,763 34
	<hr/>
J. B. Dandeno, services as inspector.....	\$ 2,499 96
A. F. Robertson, services as Instructor in Domestic Art.....	1,500 00
Instructors and students, services and expenses.....	4,601 03
Grants.....	5,405 50
Printing, advertising, contingencies.....	378 18
	<hr/>
	\$ 14,844 67
	<hr/>

5.—EDUCATIONAL WORK *RE* MARKETING.

Balance, April 1, 1916.....	\$ 2,233 67
Grant, 1916-17.....	5,000 00
	<hr/>
	\$ 7,233 67
Expenditure to March 31, 1917.....	4,615 12
	<hr/>
Balance, March 31, 1917.....	\$ 2,618 55
	<hr/>
F. C. Hart, Director, services and expenses.....	\$ 2,614 04
J. B. Fairbairn, Assistant, services and expenses.....	\$ 1,040 90
Stenographer.....	618 75
Printing, stationery, contingencies.....	341 43
	<hr/>
	\$ 4,615 12
	<hr/>

6.—STOCK AND SEED JUDGING.

Balance, April 1, 1916.....	\$	4,530	59
Grant, 1916-17.....		2,000	00
Refunds credited to appropriation.....		411	05
	\$	6,941	64
Expenditure to March 31, 1917.....		3,800	85
Balance, March 31, 1917.....	\$	3,140	79
Services and expenses of Instructors,—			
G. Browne.....	\$119	10	
C. E. Bain.....	19	10	
G. A. Brethen.....	4	20	
W. J. Bell.....	150	00	
W. E. Baker.....	361	50	
R. H. Harding.....	238	25	
J. Gardhouse.....	14	30	
W. J. Gardhouse.....	25	25	
H. M. King.....	24	30	
W. Leitch.....	93	55	
J. M. McCallum.....	115	15	
G. E. Day.....	33	55	
A. R. Ness.....	98	61	
E. P. Bradt.....	99	80	
G. A. Putnam.....	100	00	
W. G. Orvis.....	17	25	
E. Gordon.....	50	90	
	\$	1,564	81
G. R. Green.....	\$	50	00
H. G. Reed.....		267	90
F. H. Silcox.....		15	90
R. S. Stevenson.....		315	15
D. M. Winter.....		50	00
F. R. Mallory.....		96	12
J. P. Sackville.....		37	20
D. MacVannel.....		6	25
C. Schuyler.....		77	25
R. M. Tipper.....		21	24
A. W. Sirett.....		50	00
Forward.....		1,564	81
	\$	2,561	82
Labour, cartage, etc.....		359	31
Rent of stock.....		395	91
Print. and Advertising.....		372	31
Rent of halls, etc.....		102	50
Livery hire.....		19	00
	\$	3,800	85

This expenditure was largely for lecturers who did Educational work throughout the country in short courses in Stock and Seed Judging, carried on under the Institutes Branch of the Department.

7.—DRAINAGE WORK.

Balance, April 1, 1916.....	\$	10	34
Grant, 1916-17.....		10,000	00
Refunds credited to appropriation.....		2,085	00
	\$	12,095	34
Expenditure to March 31, 1917.....		10,439	73
Balance, March 31, 1917.....	\$	1,655	61
W. Dunn, Demonstrator, services and expenses.....	\$	557	49
E. Murdock, Demonstrator, services and expenses.....		291	00
I. B. Martin, Demonstrator, services and expenses.....		411	10
J. W. Wadsworth, Demonstrator, services and expenses.....		335	43
W. H. Scott, Soil Analyst, services and expenses.....		709	88
A. M. Morton, Laboratory Assistant, services.....		360	00
C. M. Laidlaw, expenses.....		79	35
Sténographer.....		129	50
Fieldmen, services and expenses.....		685	88
Draftsmen, services and expenses.....		126	34
Tile layers.....		250	71
Machine operators.....		321	13
Surveyors.....		136	54
Concrete mixer.....		870	54
Ditching machine.....		2,390	41
Tile, supplies, repairs, etc.....		2,008	06
Printing, postage, stationery, cartage.....		776	36
	\$	10,439	73

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8.—DEMONSTRATION IN VEGETABLE GROWING.

	\$	cts.
Balance, April 1, 1916.....	38	37
Grant 1916-17.....	4,000	00
	4,038	37
Expenditure to March 31, 1917.....	3,943	76
	94	61
Balance, March 31, 1917.....		
S. C. Johnston, Vegetable Specialist, services and expenses.....	2,196	69
Sundry persons lecturing, services and expenses.....	510	35
Livery and incidentals.....	479	80
Furnishings and equipment.....	700	39
Printing, stationery, etc.....	56	53
	3,943	76

9.—DEMONSTRATION WORK ON SOILS.

	\$	cts.
Grant, 1916-17.....	4,200	00
Expenditure to March 31, 1917.....	3,685	60
	514	40
Balance, March 31, 1917.....		
R. A. Brink, services and expenses..	315	70
S. R. Curzon, services and expenses.....	700	00
H. L. Fulmer, services and expenses.....	26	80
A. L. Gibson, services and expenses.....	177	46
R. Harcourt, services and expenses.....	177	55
W. L. Iveson, services and expenses.....	282	99
D. Johns, services and expenses.....	540	00
C. Stanley, services and expenses.....	824	58
J. Woodward, services and expenses.....	170	40
Supplies, equipment, repairs.....	357	75
Sundry persons, services and expenses.....	96	50
Freight and cartage.....	13	07
Incidentals.....	2	80
	3,685	06

10.—DEMONSTRATIONS IN BEE-KEEPING.

	\$	cts.
Balance, April 1, 1916.....	52	31
Grant, 1916-17.....	1,500	00
	1,552	31
Expenditure to March 31, 1917.....	878	24
	674	07
Balance, March 31, 1917.....		
Students and Instructors, services and expenses—	\$	cts.
C. E. Arnold.....	61	85
J. Armstrong.....	50	25
A. Denison.....	102	26
A. E. Hutchison.....	34	00
G. F. Kingsmill.....	137	12
M. Pettit.....	205	84
S. A. Stewart...	64	00
Stenographer.....		
Supplies, etc.....		
	655	32
	150	00
	72	92
	878	24

A number of short courses and demonstrations were given at fall fairs and other centres.

11.—DAIRY DEMONSTRATIONS.

	\$	cts.
Grant, 1916-17.....	1,658	45
Expenditure to March 31, 1917.....	1,519	87
	138	58
Balance, March 31, 1917.....		
J. H. Scott, services and expenses as official grader of butter.....	1,504	42
Contingencies.....	15	45
	1,519	87

12 (a).—HORTICULTURAL EXPERIMENT STATION.

	\$	cts.
Balance, April 1, 1916.....	868	23
Grant, 1916.....	2,500	00
	3,368	23
Expenditure to March 31, 1917.....	2,107	00
Balance, March 31, 1917.....	1,261	23
	\$	cts.
P. E. Culverhouse, Special Hypatics, services and expenses.....	1,256	06
E. Culp, assistant, services and expenses.....	161	15
Supplies, equipment, incidentals.....	689	79
	2,107	00

12 (b).—FRUIT DEMONSTRATIONS IN NEW ONTARIO.

	\$	cts.
Grant, 1916-17.....	3,500	00
Expenditure to March 31, 1917.....	1,138	25
Balance, March 31, 1917.....	2,361	75
E. M. Ricker, services and expenses.....	125	51
W. R. Leslie, services and expenses.....	100	00
Trees and equipment.....	79	72
Contingencies.....	186	39
Fuel.....	647	13
	1,138	75

13.—AGRICULTURAL SCHOOL.

	\$	cts.
Grant, 1916-17.....	50,000	00
Refunds credited to appropriation.....	185	00
	50,185	00
Expenditure to March 31, 1917.....	21,603	66
Balance, March 31, 1917.....	28,581	34
	\$	cts.
Purchase of land.....	14,500	00
Purchase of live stock and implements.....	5,337	77
Equipment.....	263	55
Labour.....	792	18
Seed grain.....	624	88
Sundries.....	85	28
	21,603	66

WOMEN'S INSTITUTES.

	\$	cts.
Balance, April 1, 1916.....	5,045	27
Refunds credited to appropriation.....	132	81
	5,178	08
Expenditure to March 31, 1917.....	5,007	32
Balance, March 31, 1917.....	170	76

Lectures—Services and Expenses—	\$	cts.
E. Broughton.....	34	90
R. M. Black.....	120	35
C. Brown.....	108	30
E. G. Conover.....	11	40
E. B. Chapman.....	80	50
E. D. Campbell.....	20	48
E. Collins.....	609	80
B. A. Duncan.....	178	97
M. I. M. Foote.....	281	04
G. Gray.....	680	45
H. E. Graydon.....	78	60
O. E. Hayes.....	255	13
I. Hobbs.....	124	90
E. McKay.....	187	90
B. McDermand.....	75	00
A. McEwen.....	218	65
D. Pirie.....	66	20

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WOMEN'S INSTITUTES—*Concluded.*

<i>Lectures—Services and Expenses—Concluded.</i>	\$ cts.	\$ cts.
J. D. Ross.....	375 21	
A. P. Scott.....	75 00	
L. K. Sirrs.....	139 65	
M. L. Woelard.....	250 02	
A. H. Willett.....	71 40	
M. H. Williams.....	75 00	
M. M. Steele.....	116 85	
M. M. Smith.....	66 60	
M. Yates.....	182 85	
		4,485 15
Printing, advertising, contingencies.....		522 17
		5,007 32

SHORT COURSES FOR FALL FAIR JUDGES.

	\$ cts.
Balance April 1, 1916.....	427 59
Expenditure to March 31, 1917.....	59 85
Balance March 31st, 1917.....	367 74
	\$ cts.
Sundry persons, services and expenses.....	59 85

DEMONSTRATIONS IN LIVE STOCK AND POULTRY..

	\$ cts.
Balance, April 1, 1916.....	2,070 60
By transfer from Poultry Work, Agricultural Aid.....	4 39
Revenue credited to appropriation.....	368 50
	2,443 49
Expenditure to March 31, 1917.....	1,541 60
Balance, March 31, 1917.....	901 89

<i>Lectures Services and Expenses—</i>	\$ cts.	\$ cts.
H. Barton.....	50 00	
S. K. Burden.....	15 00	
E. S. Bates.....	25 00	
W. Barrie.....	15 00	
L. N. Clark.....	25 00	
G. E. Day.....	35 00	
W. F. Elliott.....	15 00	
J. M. Gardhouse.....	30 00	
J. Gardhouse.....	60 00	
L. R. Guilds.....	30 00	
E. A. Hales.....	49 50	
W. A. Leitch.....	35 00	
R. Miller.....	55 00	
R. McEwen.....	40 00	
E. L. Richardson.....	30 00	
		509 50
Reporting conventions.....		230 00
Printing.....		165 51
Purchase of animals for demonstrations.....		592 34
Sundries.....		44 25
		1,541 60

This expenditure was mainly for educational work, carried on in connection with the winter fairs at Ottawa and Guelph.

DEMONSTRATION IN FRUIT GROWING.

	\$ cts.
Balance, April 1, 1917.....	4,297 42
Expenditure to March 31, 1917.....	1,100 00
Balance, March 31, 1917.....	3,197 42
O. J. Robb, services as fruit specialist.....	1,100 00

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The expenditure under this head consisted in maintaining a fruit specialist in the field, working with Vineland as his headquarters.

LECTURES IN HORTICULTURE.

	\$ cts.
Balance, April 1, 1916.....	224 20
Expenditure to March 31, 1917.....	213 18
Balance, March 31, 1917.....	11 02
Instructors, services and expenses.....	213 18

This covers the services and expenses of a few lecturers who were sent out to give information on horticultural work in towns and cities.

MISCELLANEOUS.

	\$ cts.
Balance, April 1, 1916.....	3,663 00
Expenditure to March 31, 1917.....	2,401 77
Balance, March 31, 1917.....	-1,261 23
	\$ cts.
R. A. Moore, services lecturing.....	80 00
A. Maclaren as lecturer on rural sociology.....	1,590 81
Seed.....	730 96
	2,401 77

AGRICULTURAL AID GRANT, 1912.

STATEMENT, April 1, 1916, to March 31, 1917.

	Balance, April 1, 1916.	Balance on hand March 31, 1917.
	\$ cts.	\$ cts.
Milking Shorthorns.....	1,856 11	1,856 11
Dairy Survey.....	215 51	215 51
Ontario Veterinary College Additional land.....	13,494 93	13,494 93
Western Ontario Creamery work.....	1,131 90	1,131 90
Total.....	16,698 45	16,698 45
Live stock, Northern Ontario—Refund.....	3,427 84	3,427 84
Total.....	20,126 29	20,126 29

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COMPARATIVE STATEMENT of Expenditure of Provincial Funds for Agricultural purposes for the years 1913, 1914, 1915, and 1916, and estimated Expenditure for 1917.

Service.	1913 To Oct. 31.	1914 To Oct. 31.	1915 To Oct. 31.	1916 To Oct. 31.	1917 To Oct. 31. Appropriations.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Department of Agriculture—					
Salaries, contingencies, incidentals and miscellaneous.....	98,306 79	109,973 95	98,021 72	87,137 90	119,031 00
County representatives.....	40,596 68	39,668 93	35,917 01	82,299 36	80,600 00
Live Stock Interests—					
Grants and Winter Fairs, Grants to Poultry Association and Horse Shows, Stallion Registration, Sheep Experiments, etc., Spring Shows.	38,793 66	38,563 78	43,079 35	37,314 11	46,450 00
Dairy Interests—					
Grants: Instruction and Inspection, Dairy School, Miscellaneous.....	58,574 35	58,701 09	54,601 40	56,698 72	142,297 00
Agricultural and Horticultural Societies—					
Insurance, Field Crop Competitions and Judges, Exhibitions Special Grants.....	129,473 98	125,548 19	123,867 11	158,216 36	154,750 00
Institute—Farmers' and Women's.....	32,932 25	27,323 52	23,187 08	27,305 31	30,800 00
Fruit Interests—					
Grants, Spraying Assistance, Special Crop Experiments, Cold Storage experiments, San Jose Scale, Horticultural Experiment station, Apiary Inspection Demonstration Work.....	45,454 87	54,934 72	49,515 68	46,949 41	55,100 00
Ontario Veterinary College—					
Salaries and Expenses.....	32,929 74	33,589 22	28,989 05	23,231 08	31,229 00
Ontario Agricultural College, Macdonald Institute and Ontario Experimental Farm.....					
Salaries and Expenses.....	264,458 55	284,507 65	289,315 94	290,405 04	322,092 00
Demonstration Farm, Northern Ontario.....				15,500 41	8,000 00
Total.....	741,520 87	771,811 05	755,494 34	825,057 70	990,449 00
Revenue.....	177,131 50	157,141 80	138,906 62	130,577 30	
Net Total.....	564,389 37	614,669 25	616,587 72	694,480 40	

NOTE.—The above statement does not include expenditure under colonization, factory inspection and stationary engineers' branches.

QUEBEC.

AGREEMENT, 1916-17.

	\$	cts.
1. Poultry.....	15,000	00
2. Horticulture—Fruit growing.....	33,000	00
3. Bacon.....	8,000	00
4. Schools of Agriculture.....	60,000	00
5. Agricultural teaching in Academies, Rural Schools and Normal Schools.....	14,000	00
6. District Representatives, Agricultural Teachers—Agronomies.....	25,000	00
7. Experimental Union.....	2,000	00
8. Alfalfa and clover.....	5,000	00
9. Seed selection.....	4,500	00
10. Bee-keeping.....	9,000	00
11. School of Veterinary Science.....	5,000	00
12. Dairying.....	29,000	00
13. Drainage.....	8,000	00
14. Domestic Science.....	10,000	00
15. Maple sugar.....	4,000	00
16. Conferences, Publications, etc.....	11,712	23
Total.....	243,212	23

The report of Dr. J. C. Chapais, Assistant Commissioner for Quebec, contains the following particulars as to the work performed during the year:—

POULTRY REARING.

Twenty-five poultry rearing, breeding or feeding stations were in operation. These stations are operated by their owners and leased to the Department for ten dollars per month. Five stations conducted customs incubators. Twenty-thousand eggs were distributed to school children.

HORTICULTURE.

The staff of the Horticultural Division of the Quebec Department of Agriculture comprises twenty-eight officers, of whom two are permanent, ten are instructors employed during the whole year, and sixteen are instructors employed for eight months. The work of the service is spread over twenty-one demonstration fields, twenty-nine fruit growing stations and six demonstration orchards. During the winter of 1916-17, lectures and demonstrations were delivered in twenty-two counties. Assistance was also given at short courses and in connection with school exhibits.

BACON INDUSTRY.

In 1916 the direction of the St. Valier abattoir, built and equipped to demonstrate bacon curing and general abattoir work, was placed in the hands of the Quebec Cheesemakers' Co-operative Association, which will continue to operate it for instruction purposes under the management of Mr. A. Hansen, a Danish expert brought to this country in 1912.

SCHOOLS OF AGRICULTURE.

Two visits were paid to the Schools of Agriculture at Oka and Ste. Anne de la Pocatière. It was feared that the disastrous fire which destroyed the Trappist Monastery at Oka would interfere with the running of the Institute, but such proved not to be the case.

Following are statements of expenditure of these institutions to March 31, 1917.

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OKA AGRICULTURAL INSTITUTE.

EXPENDITURE OF FEDERAL GRANT, JULY, 1916 TO MARCH 31, 1917.

	\$	cts.
Enlargement of College Building, annual payment.....	5,000	00
Teaching Staff, salaries and allowances.....	5,098	47
Expenses of various branches.....	375	00
Administration, salaries and wages.....	2,775	00
Insurance, heating and lighting.....	1,763	42
Allowance for maintenance of students at \$9 per month.....	1,200	00
Demonstration plots, maintenance during recess.....	202	00
	16,413	89

SCHOOL OF AGRICULTURE, STE. ANNE DE LA POCATIÈRE.

EXPENDITURE OF FEDERAL GRANT, JULY 1916 TO MARCH 31, 1917.

	\$	cts.
Building Extension, annual payment.....	6,000	00
Salaries and allowances, Teaching Staff.....	5,330	00
Administration, wages.....	1,563	00
Insurance, heating and lighting.....	2,112	96
Allowance for maintenance of students.....	1,486	58
Demonstration plots.....	500	00
Library.....	256	19
Milk investigation work.....	225	00
Poultry-keeping.....	100	00
Incidentals.....	57	00
	17,630	73

AGRICULTURAL TEACHING IN ACADEMIES AND SCHOOLS.

Short courses for School Inspectors were provided both at Oka and at Ste. Anne de la Pocatière. The subjects dealt with included horticulture, poultry and bee-keeping as well as general agriculture. The lecture staff of the Quebec Department of Agriculture delivered lectures on agricultural topics in the various classical colleges and in some of the primary schools and institutions. Lectures in domestic science, agricultural economics, co-operation, etc., were prominent in the programme.

School gardens to the number of 759 were carried on in 59 counties during 1916, and 37 school fairs were held in the French counties, to which 5,749 children contributed 10,900 exhibits. In addition, there were thirteen school fairs held in the English counties with 2,493 children contributing.

DISTRICT REPRESENTATIVES.

The following representatives and assistant representatives carried on work in the districts named:—

Representative.	District.
Albert, J. N.....	Bonaventure and Gaspé.
Belanger, M. A. J.....	Chicoutimi and Lake St. John.
Cloutier, Henri.....	Iberville and Rouville.
Desilets, Alphonse.....	Quebec and Montmorency.
Fortin, J. A.....	Champlain.
Husk, R. E.....	Beauharnois and Huntingdon.
Leclerc, J. M.....	Abitibi.
MacDougall, W. G.....	Compton and Sherbrooke.
Magnan, Jean-Chs.....	Portneuf.....
Parent, L. V.....	Richmond.
Raymond, Abel.....	Bellechasse et Dorchester.
Rousseau, R. A.....	Bagot and Drummond.
Roy, Alphonse.....	Arthabaska and Megantic.
Assistant representatives.	District.
Belanger, M. J. A.....	Beauharnois and Chateauguay.
Delaney, Wilfrid.....	Quebec and Montmorency.
Gagnon, Roger.....	Kamouraska and L'Islet.
Gosselin, L. A.....	Bellechasse and Dorchester.
Landry, Arthur.....	Bagot, Drummond and Bellechasse.
Paquet, J. A.....	Quebec and Montmorency.
Saint-Armand R.....	Portneuf.....

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The work embraced the following subjects, viz.:—Dairy husbandry, bee-keeping, poultry husbandry, horticulture, general agriculture and school gardens.

EXPERIMENTAL UNION.

This institution has its headquarters at Belvidere Villa, Ste.-Foye Road, Quebec, where lectures and demonstrations are given to farmers, normal school students and boys from the city who intend to make farming their vocation. In the programme of work for the season, emphasis was placed on greater production.

To promote poultry husbandry, a co-operative incubator is operated, while some twenty poultry houses have been erected in the newer parts of the province and small flocks of birds distributed. Experiments in alfalfa growing are conducted with the assistance of the district representatives.

CLOVER DEMONSTRATIONS.

Thirty-four clover demonstration fields were operated with the object of promoting the growing of clover for seed. The two clover hullers owned by the Department were demonstrated in localities where a beginning was being made. The production of seed clover continues to make rapid expansion, and the demonstrations carried on have been very successful in stimulating production. One hundred and twenty-five hullers are now owned in the province, principally by clubs.

UNDERDRAINAGE.

The policy of encouragement to underdrainage was continued. Nine instructors, French and English, were kept at the disposal of farmers who wished to underdrain their land, and plans were prepared free of charge. During the season, 84,430 feet of trench was dug on nine farms by the two ditching machines operated by the Department.

SHORT COURSES.

Short courses for farmers (*Semaines agricoles*) were held in two divisions, the work of the eastern section from Quebec to Gaspé being performed by the professors of the two schools of agriculture, while in the western section the department's staff of lecturers took charge. In the East courses were held at eight points in five counties. Number of lectures, 245; number of demonstrations, 23; total attendance, 19,204. In the West, one course was held in each of sixteen counties. Number of lectures, 558; number of demonstrations, 46; total number in attendance, 33,670.

MACDONALD COLLEGE.

Animal Husbandry.—The attention of this department during the year was again devoted to sheep husbandry. The demonstration flocks of pure-bred sheep were increased from eight to thirteen. The example of these flocks and the distribution of the pure-bred rams resulting from them is having a marked influence. Co-operative wool grading and marketing was continued through the associations of sheep breeders, and two sales of pure-bred sheep were conducted.

Poultry Husbandry.—This line of extension work included (1) exhibits at Fairs and demonstration and lectures at various centres; (2) demonstration with different types of poultry houses at six points; (3) the maintenance of pure-bred flocks in connection with housing demonstrations, and the distribution of suitable breeding stock to the farmers of the community; (4) the distribution of eggs to rural schools for hatching purposes.

Rural School Department.—Most of the work carried on during the year was in connection with school fairs. The number of schools taking part in

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1916 was 191, and the number of exhibitors 2,493. Seed and eggs were supplied for distribution by the poultry, cereal, and horticultural departments. Some 4,893 samples of seed and settings of eggs were distributed in 325 schools, both French and English. The department has 900 plots to be visited and reported upon. In addition to school fair work, a course of lectures is given to the Macdonald Summer School Students and also at the Summer School for teachers at Lachute. Rural schools are visited, school boards interviewed, school grounds improved, and lectures in agriculture given in the superior schools.

Household Science.—Five Homemakers' Clubs were organized during the year, and much patriotic and food and nutrition work accomplished.

Fifty-seven demonstrations were given to school children on canning and bread-making. Emphasis was laid on canning as a means of preventing waste in war time, and the formation of canning and marketing clubs was assisted. A bulletin on canning was issued.

Short Courses.—The following winter short courses were held:

(1) At Montreal, suburban gardening; four evenings; attendance 367.

(2) At Macdonald College; four days; Animal Husbandry; Cereal Husbandry; attendance 56.

(3) At Macdonald College; two weeks; Poultry Husbandry; attendance 10.

Classes in Veterinary work were given at the College and also at points throughout the Province.

Investigation and Research.—In the department of Biology, the study of the Bud Moth, an important apple insect in Quebec, was completed. In the Horticultural department work in apple pollination was continued, and a test and study of onion and cabbage seed undertaken. Three demonstration orchards are conducted by this department; also experiments in vegetable irrigation. The work of the Cereal Husbandry department consisted mainly in the continued investigation of root crops, experiments with alfalfa and corn at country points and in rendering assistance to school fairs. In the Chemistry department the investigation of maple sap products was continued; while in the Physics department, the investigation of certain aspects of soil fertilization was carried on.

STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR YEAR ENDED
MARCH 31, 1917.

<i>Receipts</i> —	\$	cts.
Credit, balance April 1, 1916.....	279	29
Grant, 1916-17.....	20,500	00
Dr. balance, March 31, 1917.....	2,947	62
	23,726	91

<i>Disbursements</i> —	\$	cts.
(Including salaries of members of Staff paid wholly or partly from grant).—		
Animal Husbandry.....	4,852	73
Biology.....	1,006	54
Cereal Husbandry.....	2,226	57
Chemistry.....	1,051	90
Demonstration.....	3,111	48
Horticulture.....	398	14
Household Science.....	2,205	11
Physics.....	700	00
Poultry.....	2,239	41
Veterinary Science.....	1,653	40
Rural Schools.....	3,251	47
General.....	733	10
Short Courses.....	297	06
	23,726	91

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OFFICERS RECEIVING REMUNERATION FROM THE FEDERAL GRANT.

(A) *Persons, regularly employed, whose salaries are paid wholly from the Agricultural Grant.*

- Instructor L. P. Belzile, Department of Agriculture, Quebec.
 " Raoul Dumaine, St-Guillaume d'Upton, Quebec.
 " J. G. Morgan, Department of Agriculture, Quebec.
 " J. M. Talbot, Department of Agriculture, Quebec.
 " Antonio Mathieu, Department of Agriculture, Quebec.
 " Lucien Dupuis, Department of Agriculture, Quebec.
 " J. E. Grisé, Department of Agriculture, Quebec.
 " Cyrille Vaillancourt, Department of Agriculture, Quebec.
 " J. T. Hamel, Department of Agriculture, Quebec.
 " Wilfrid Delaney, Department of Agriculture, Quebec.
 " Francisque Petraz, 1366 Maple Ave., Montreal.
 " G. Reynaud, Berthierville,
 " Jos. Reddy, Department of Agriculture, Quebec.
 " J. J. Gautreau, Department of Agriculture, Quebec.
- Bacon Industry, A. Hansen, St. Valier, Bellechasse county.
 Seed Expert, Ls. Lavellée, St. Guillaume d'Upton, Quebec.
 Lecturer, Miss Eveline LeBlanc, Bonaventure, Quebec.
 " Miss Eva Paré, Causapscal, Quebec.
- Entomologist, Georges Maheux, Department of Agriculture, Quebec.
 Clerk, J. D. Barbeau, 142 Sauvageau St., Quebec, " Poultry Branch."
 " O. Roberge, Ste-Rosalie, Quebec.
 " Ros. Carbonneau, Department of Agriculture, " "
- District Representatives—
 J. N. Albert, Bonaventure, Quebec.
 Michel Belanger, Roberval, Quebec.
 E. N. Blondin, Huntingdon, Quebec.
 Henri Cloutier, Rougement, Quebec.
 Alp. Desilets, Quebec, Que.
 J. A. Fortin, St. Stanislas, Quebec.
 Arthur Landry, St. Charles, Bellechasse Co., Quebec.
 J. M. Leclair, Makamik, Abitibi, Quebec.
 J. C. Magnan, St. Casimir, Portneuf, Co. Quebec.
 W. G. MacDougall, Lennoxville, Quebec.
 L. V. Parent, Richmond, Quebec.
 Abel Raymond, Plessisville, Quebec.
 R. A. Rousseau, Acton Vale, Quebec.
- Assistant District Representatives—
 Paul Brunelle, Department of Agriculture, Quebec.
 Wilfrid Chamberland, Acton Vale, Quebec.
 Roger Gagnon, Ste-Anne de la Pocatière, Quebec.
 Sauveur Gosselin, Rougemont, Quebec.
 Gustave Mongeau, Roberval, Quebec.
 Denis Ouellet, St-Stanislas, Champlain, Quebec.
 J. A. Plante, St. Casimir, Portneuf, Quebec.
 Evangeliste Poulin, Richmond, Quebec.
 Alex. Rioux, Makimik, Quebec.
 X. N. Rodrigue, Bonaventure, Quebec.
 L. C. Roy, Plessisville, Quebec.
 J. R. St. Arnaud, Lennoxville, Quebec.
 St. Hilaire, Pierre, St. Charles, Bellechasse Co., Quebec.
 Therrien Lucien, Huntingdon, Quebec.

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(B) *Persons, regularly employed, whose salaries are paid in part from the Agricultural Instruction Grant.*

J. Arthur Paquet, Accountant, Department of Agriculture.

SCHOOL OF AGRICULTURE, SAINTE-ANNE-DE-LA-POCATIÈRE.

Professor of Chemistry, L'Abbè Geo. Cote;
 " of Horticulture, L'Abbè P. Levasseur;
 " " L'Abbè A. Letourneau;
 " of English, L'Abbè T. Ennis;
 " of French, L'Abbè Ed. Beaudoin;
 " of Mathematics, L'Abbè S. Lord;
 " de Droit Rural, Notaire Dupuis;
 " of Botany and Entomology, Geo. Bouchard;
 " de Genie Rural, Albert Sirois;
 Instructor Bacon Curing, Frs. Dionne, B.S.A.;
 Professor of Horticulture, Albert Jalbert;
 Demonstration in Dairying, P. Boulet;
 Assistant farm foreman, N. Jourdain;
 " " N. Sènèchal;
 Assistant Professor and Superintendent of Demonstration Plots, L.-d-G.
 Fortin, B.S.A.;
 Demonstrator in Dairying, Joseph Verret;
 " Horticulture, Mederic Chalifour;
 Domestics (4 persons).

THE OKA AGRICULTURAL INSTITUTE, LA TRAPPE, QUE.

The salaries of the following are paid wholly from the Federal Subsidy:—

Director: Rev. Father Jean de la Croix;
 Chiefs of general practice, Brothers Gerard and Celestin, and other heads
 of Departments.
 Chaplains: RR. FF. Humbert and Alfred.
 Chief Master: Father Yves.
 Institute Secretary, Donat Fortin and assistant;
 Professor of Chemistry and instructor agricultural engineering: H. Nagant;
 " of Physics, J. N. Ponton;
 " of Agricultural and experimental field, Ph. Roý;
 " of Entomology, Firmin Letourneau;
 " of Veterinary Medicine, Dr. A. Dauth and Brother Isidore;
 " of Apiculture: Father Maur;
 " of Horticulture: Father Athanase;
 " of Poultry Husbandry: Brother Wilfrid;
 Instructor in horticulture: L. Arscott;
 " arboriculture: Father Honorè;

The salaries of the following are paid partly from the Federal Subsidy:—

Professor of English: Rev. Brother Benjamin;
 " of Arboriculture, Rev. Father Leopold;
 " of Biology, zoology and zootechny, Rev. Brother Isidore;

MACDONALD COLLEGE.

Officers regularly employed, whose salaries are paid wholly from the Agricultural Instruction grant.

- Veterinarian, N. E. McEwan, B.V.S.C., V.S.;
- Sheep Husbandry, A. A. McMillan, B.S.A.;
- Assistant in Biology, E. M. Duporte, B.S.A.;
- “ Physics, R. Dougall, B.S.A.;
- “ Animal Husbandry, A. E. McLaurin, B.S.A.;
- “ Chemistry, J. G. Van Zoeren;
- Crop Investigator, E. A. Lods, B.S.A.;
- Demonstrator Homemakers’ Clubs, Mrs. N. C. MacFarlane;
- Assistant Demonstrator Homemakers’ Clubs, Miss J. Babb;
- Rural School Demonstrator, J. E. McOuat, B.S.A.;
- Assistant Rural School Demonstrator, J. Harold McOuat, B.S.A.;
- District Demonstrator, C. H. Hodge, B.S.A., Shawville, Quebec.

QUEBEC,

BALANCE OF GRANT OF 1915-16.

STATEMENT from March 31, 1916, to September 26, 1916.

No	Classification.	Balance, April 1, 1916		Expended to Sept. 26, 1916	
		\$	cts.	\$	cts.
1	Poultry.	5,456	02	5,456	02
2	Fruit.	5,759	40	5,759	40
3	Bacon	575	92	575	92
4	Schools of Agriculture.	18,594	94	18,594	94
5	Instruction in Academies and schools.	383	00	383	00
6	District representatives	1,319	30	1,319	30
7	Experimental Union	1,000	00	1,000	00
8	Clover and Alfalfa	4	96	4	96
9	Seed.	542	99	542	99
10	Bee-keeping.	3	45	3	45
11	Tobacco.				
12	Dairying				
13	Drainage	281	80	281	80
14	Domestic Science.	459	59	459	59
15	Maple Sugar.	1,924	29	1,924	29
16	Lectures and Publications.	0	60	0	60
		\$ 36,306	26	\$ 36,306	26

1.—POULTRY.

Salary and Expenses, Instructors—	\$	cts.
R. Dumaine.....	317	98
Rev. J. B. A. Allaire.....	153	76
A. A. Lapointe.....	33	50
J. G. Morgan.....	289	79
Leon Picard.....	248	11
Rev. Fr. Liguori.....	389	10
J. D. Barbeau.....	102	50
Art. Mathiew.....	215	40
Art. Heroux.....	50	00
Art. Chabot.....	31	45
Pascal Fortier, allowance organizing station.....	60	00
	1,891	59
Superintendents, Poultry Plants allowance, rental.....	1,287	60
Printing.....	1,691	04
Eggs for distribution.....	98	30
Eggs for Incubation.....	289	95
Equipment—		
Incubators.....	81	00
Beauceville Poultry Station, allowance for construction of “ eleveuse ”	116	54
	5,456	02

SESSIONAL PAPER No. 15c

2.—HORTICULTURE.

Fruit Division: salary and expenses—

Solyme Roy, Chief Horticulturist.....	\$ 423 84
J. H. Lavoie, Assist. Horticulturist.....	527 42
Rev. V. A. Huard, Provincial Entomologist.....	225 00
P. Reid, Superintendent, Demonstration orchards, expense..	34 95

\$ 1,211 21

Instructors, Lecturers, Salary and expenses—

J. T. Hamel.....	\$ 433 35
Phil. Hamel.....	145 90
J. M. Talbot.....	360 29
Alf. LeBel.....	368 00
Tel. Roy.....	55 61
Jas. Cloutier.....	210 83
F. X. Gossilin.....	205 22
L. Dupuis.....	122 50
G. Renaud.....	87 50
Sundry persons, expenses.....	46 70

\$ 2,035 90
712 12

Berthierville Nursery.....

Printing—

J. H. Lavoie, 20,000 copies " Guide to Horticulture "....	\$ 1,100 00
5,000 copies Bulletin No. 21.....	288 00
Miscellaneous.....	88 03

\$ 1,476 03

Equipment, supplies, incidentals.....

324 14

\$ 5,759 40

3.—BACON.

A. Hansen, Bacon expert, salary and expenses.....	\$ 272 96
A. C. St. Pierre, Manager, St. Valier, salary and expenses.....	148 35

\$ 421 31

Insurance, abattoir.....

83 50

Printing and incidentals.....

71 11

\$ 575 92

4.—SCHOOLS OF AGRICULTURE.

School of Agriculture, Ste. Anne de la Pocatière, balance of grant and board of students..	\$ 7,384 94
Oka Institute of Agriculture, balance of grant.....	5,910 00
Macdonald College, balance of grant.....	5,00 000
Orphelinat Agricole a Vauvert.....	300 00

\$ 18,594 94

5.—AGRICULTURAL TEACHING IN ACADEMIES, RURAL AND NORMAL SCHOOLS.

Seeds for distribution to school children.....	\$ 292 30
Lecturers, services.....	90 00
Incidentals.....	0 70

\$ 383 00

6.—DISTRICT REPRESENTATIVES.

General Expenses—

	\$	cts.
J. W. Leclair.....	188	47
A. Raymond.....	105	95
H. Cloutier.....	73	69
J. A. Fortin.....	110	63
J. N. Albert.....	29	65
A. Paquet.....	49	70
R. A. Rosseau.....	106	50
J. C. Magnan.....	111	25
A. Desilets.....	218	35
A. Landry.....	14	50

1,008 69

Typewriter.....

158 10

Printing.....

80 38

Miscellaneous.....

72 13

1,319 30

7.—EXPERIMENTAL UNION.

	\$ cts.
Balance of grant to Quebec Experimental Union.....	1,000 00

8.—CLOVER AND ALFALFA.

Postage.....	4 96
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9.—SEED SELECTION.

Salaries and Expenses—

	\$ cts.
J. E. Kronstrom.....	50 00
Les Brown.....	116 70
A. Pare.....	50 00
Ls. Lavellee.....	62 50
L. Francoeur.....	119 80
L. P. Belzile.....	77 70
A. Desmarais.....	65 75
Incidentals.....	0 54
	542 99

10.—BEE-KEEPING.

Incidentals.....	\$3 45
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13.—DRAINAGE.

Drainage Specialists, Services and Expenses—

	\$ cts.
R. Barbin.....	50 00
L. P. Gauvin.....	62 25
N. April.....	64 35
O. Garneau.....	50 00
W. Giroux.....	50 00
	276 60
Incidentals.....	5 20
	281 80

14.—DOMESTIC SCIENCE.

	\$ cts.
Rev. O. L. Martin, Provincial Inspector, salary and expenses.....	343 08
Allowance to Domestic Science School, Roberval, for equipment.....	48 00
Incidentals....	68 51
	459 59

15.—MAPLE SUGAR.

	\$ cts
Beauceville School—Alex. Boulduc, Supt., Allowance and expenses.....	100 00
Labelle School, J. H. Lefebvre, Supt., rental	350 00
Ste. Louise School, J. L. A. Dupuis, Supt., allowance, expense, rental.....	331 30
St. Casimir School, A. Tessier, Supt., rental, 1916.....	400 00
M. Belanger, Instructor, services and expenses.....	203 60
Alfred Lebrun, services and expenses.....	96 05
A. Francoeur, services and expenses.....	127 55
Sundry persons, expenses, sugar-making demonstrations.....	224 30
Supplies and incidentals.....	91 49
	1,924 29

16.—LECTURES, PUBLICATIONS.

Incidentals.....	\$0 60
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SESSIONAL PAPER No. 15c

QUEBEC.

GRANT OF 1916-1917.

SUMMARY STATEMENT, April 1, 1916, to March 31, 1917.

No.	Classification.	Grant.	Expendi- ture.	Dr. Balance.	Cr. Balance.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.
1	Poultry.....	15,000 00	15,000 00		
2	Horticulture.....	33,000 00	26,022 64		6,977 36
3	Bacon.....	8,000 00	6,025 41		1,974 59
4	Schools of Agriculture.....	60,000 00	51,556 58		8,443 42
5	Agricultural teaching in academies, rural and normal schools.....	14,000 00	10,176 42		3,823 58
6	District representatives.....	25,000 00	27,964 43	2,964 43	
7	Experimental Union.....	2,000 00	2,000 00		
8	Clover and alfalfa.....	5,000 00	5,000 00		
9	Seed selection.....	4,500 00	4,500 00		
10	Bee-keeping.....	9,000 00	9,000 00		
11	School of Veterinary Science.....	5,000 00			5,000 00
12	Dairying.....	29,000 00	25,000 00		4,000 00
13	Drainage.....	8,000 00	7,850 15		149 85
14	Domestic Science.....	10,000 00	8,481 50		1,518 50
15	Maple Sugar.....	4,000 00	2,343 51		1,656 49
16	Conferences, publications, etc.....	11,712 23	10,645 60		1,066 63
					34,610 42
					2,964 43
	Total.....	243,212 23	211,566 24	2,964 43	31,645 99

1.—POULTRY.

Grant, 1916-17.....	\$ cts. 15,000 00	\$ cts. 15,000 00
Expended, March 31, 1917.....		15,000 00
	15,000 00	15,000 00

Salaries and expenses—

	\$ cts.
Rev. Fr. Liguori.....	1,250 63
Rev. J. B. A. Allaire.....	909 05
J. D. Barbeau.....	437 66
J. G. Morgan.....	953 57
Leon Picard.....	775 75
R. Dumaine.....	992 13
Ant. Mathiew.....	855 54
Tel. Roy.....	128 30
Sundry persons.....	81 57
Superintendents poultry plants.....	2,549 00
Supplies poultry plants.....	923 44
Equipment poultry plants.....	217 98
Special Course, Ste. Anne de la Pocatière.....	214 00
Expenses re Poultry Improvement Oka Institute.....	101 35
Preparing and printing 20,000 copies Poultry Bulletin.....	4,610 03
	15,000 00

2.—HORTICULTURE.

	\$	cts.	\$	cts.
Grant, 1916-17.....	33,000	00		
Expended, March 31, 1917.....			26,022	64
Balance forward.....			6,977	36
	33,000	00	33,000	00

Fruit Division—

	\$	cts.
Solyme Roy, salary and expenses.....	368	45
J. H. Lavoie.....	1,022	24
Rev. V. A. Huard.....	97	75
Geo. Maheux.....	1,092	61
Books, periodicals, office supplies.....	597	45
Furniture.....	389	75
Bulletins and printing.....	1,637	56
Supplies and incidentals.....	1,157	31

Fruit Stations—

Superintendents, allowances.....	2,169	33
Supplies and incidentals.....	1,196	22
Fruit trees and implements.....	474	52
Nursery Berthierville.....	1,140	97

Instructors, lecturers, etc., salaries and expenses—

Peter Reid.....	1,369	09
A. Label.....	1,130	05
L. Dupuis.....	1,987	65
Phil. Hamel.....	957	12
G. Raynaud.....	1,389	80
J. M. Talbot.....	1,346	94
J. T. Hamel.....	1,055	80
J. H. Grise.....	991	04
Jos. Cloutier.....	726	70
Et. Paradis.....	242	67
A. Pearson.....	370	60
O. Gauvin.....	157	78
T. E. Tremblay.....	164	95
Arm. St. Pierre.....	164	98
Sundry persons.....	1,401	31
Equipment—		
Stereopticon.....	80	90
Canning machinery, Oka Institute.....	1,141	10
	26,022	64

3.—BACON.

	\$	cts.	\$	cts.
Grant, 1916-17.....	12,000	00		
Expended, March 31, 1917.....			6,025	41
Balance forward.....			5,974	59
	12,000	00	12,000	00

	\$	cts.
A. Hansen, salary and expenses.....	2,238	99
Sundry persons, salary and expenses.....	86	67
Insurance, abattoir.....	289	88
St. Valier abattoir, repairs.....	99	22
Bulletins and printing.....	1,683	20
Pork and bacon meetings, services and expenses, sundry persons.....	1,427	45
Incidentals.....	200	00
	6,025	41

SESSIONAL PAPER No. 15c

4.—SCHOOLS OF AGRICULTURE.

Grant, 1916-17.....	\$ 60,000 00	
Expended, March 31, 1917.....		\$ 51,556 58
Balance forward.....		8,443 42
	<u>\$ 60,000 00</u>	<u>\$ 60,000 00</u>
Ste. Anne de la Pocatière.....	\$ 16,000 00	
Allowance for students' board.....	1,256 58	
		<u>\$ 17,256 58</u>
Oka Agricultural Institute.....		17,000 00
Macdonald Agricultural College..		17,000 00
Orphelinat Agricole à Vauvert.....		300 00
		<u>\$ 51,556 58</u>

5.—AGRICULTURAL TEACHING IN ACADEMIES, RURAL AND NORMAL SCHOOLS.

Grant, 1916-17.....	\$ 14,000 00	
Expended, March 31, 1917.....		\$ 10,176 42
Balance forward.....		3,823 58
	<u>\$ 14,000 00</u>	<u>\$ 14,000 00</u>

<i>Services and Expenses—</i>		
J. G. Magnan.....	\$ 753 35	
Lecturers, sundry persons.....	3,816 95	
		<u>\$ 4,570 30</u>
Printing.....		280 89
Incidentals.....		413 00
School fairs expenses.....		484 28
Ste. Anne de la Pocatière, allowances to Short Course students.....		1,459 85
Oka Institute, allowances to Short Course students.....		1,854 37
Macdonald College, Special Course allowance.....		1,113 73
		<u>\$ 10,176 42</u>

6.—DISTRICT REPRESENTATIVES.

Grant, 1916-17.....	\$ 25,000 00	
Expended, March 31, 1917.....		\$ 27,964 43
Balance forward.....		2,964 43
	<u>\$ 27,964 43</u>	<u>\$ 27,964 43</u>

<i>Salaries and Expenses—</i>		
J. M. Leclair.....	\$ 1,962 54	
R. A. Rosseau.....	2,069 18	
A. Raymond.....	1,237 68	
J. C. Magnan.....	1,963 39	
J. B. & H. Cloutier.....	1,978 78	
J. A. Fortin.....	1,757 59	
W. Delaney.....	849 88	
J. A. Desilets.....	856 54	
Ray Husk.....	1,666 54	
J. R. St. Arnaud.....	745 50	
Art. Landry.....	1,076 30	
Alp. Roy.....	1,120 57	
W. G. Macdougall.....	1,252 96	
L. V. Parent.....	1,144 26	
M. Belanger.....	766 02	
J. N. Albert.....	1,877 42	
L. A. Gosselin.....	1,486 00	
Alp. Paquet.....	681 25	
Alp. Desilets.....	841 22	
Stationery and Incidentals.....	1,165 81	
Macdonald College, supplies and furnishings for seven representatives.....	1,505 00	
		<u>\$ 27,964 43</u>

7.—EXPERIMENTAL UNION.

Grant to Experimental Union of the Province of Quebec.....	\$ 2,000 00
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8.—CLOVER AND ALFALFA.

Salaries and Expenses—

L. P. Belzile.....	\$ 913 20
L. Francoeur.....	588 16
L. Brown.....	100 00
O. Garneau.....	135 30
E. Francoeur.....	101 95
Sundry persons.....	524 94
Demonstration plots, rental and expenses.....	1,126 38
Allowances rental, etc., of plots.....	723 12
Supplies and seed.....	224 92
Gas engine.....	500 00
Incidentals.....	62 03
	<hr/>
	\$ 5,000 00

9.—SEED SELECTION.

Salaries and Expenses—

Ls. Lavallee.....	\$ 1,207 01
O. Roberge.....	486 45
L. E. Kronstrom.....	482 81
J. A. Paquet.....	450 00
L. P. Belzile.....	691 09
A. Raymond.....	447 77
O. Garneau.....	163 20
M. Francoeur.....	241 55
Sundry persons.....	30 62
Supplies and seed.....	255 82
Incidentals.....	43 68
	<hr/>
	\$ 4,500 00

10.—APICULTURE.

Salaries and Expenses—

C. Vaillancourt.....	\$ 1,234 02
Hector Beland.....	874 40
A. A. Comire.....	736 28
H. Comire.....	784 00
L. J. A. Dupuis.....	757 25
Luc Dupuis.....	774 00
Elz. Girard.....	751 60
D. Rochefort.....	390 65
Henri Beland.....	331 30
W. J. Comire.....	414 50
O. Comire.....	589 65
P. A. Dupuis.....	461 50
B. Brissette.....	500 00
E. Brissette.....	227 25
	<hr/>
	\$ 8,826 40
Young Women's Club supplies.....	60 00
Supplies and Incidentals.....	63 15
Orphelinat Agricole St. Damien, honey extractor.....	25 00
Beauceville College, hives.....	25 45
	<hr/>
	\$ 9,000 00

12.—DAIRYING.

To September 30, 1916.....	\$ 25,000 00
Towards salaries and expenses of inspectors of cheese and butter factories.....	\$ 25,000 00

SESSIONAL PAPER No. 15c

13.—DRAINAGE.

Grant, 1916-17.....	\$	8,000 00	
Expended, March 31, 1917.....			\$7,850 15
Balance forward.....			149 85
	\$	8,000 00	\$8,000 00

Ste. Anne de la Pocatière, salaries and expenses—

Ulric Jean.....	\$	622 10	
R. Barbin.....		835 85	
O. Garneau.....		659 69	
F. N. Savoie.....		171 50	
N. April.....		482 73	
L. P. Garvin.....		442 97	
			\$3,214 84

Macdonald College, salaries and expenses—

G. E. Emberley.....	\$	437 02	
L. C. Hawke.....		332 95	
F. G. Hetherington.....		323 36	
J. W. Sutherland.....		153 49	
C. M. Ewart.....		279 00	
			\$ 1,525 82
John Drolet, services and expenses			848 24
W. Giroux, “ “			1,140 83
J. Delaney, “ “			50 00
Renewals, repairs, supplies.....			679 65
Incidentals and postage.....			390 77
			\$7,850 15

14.—DOMESTIC SCIENCE.

Grant, 1916-17.....	\$10,000 00	
Expended, March 31, 1917.....		\$8,481 50
Balance forward.....		1,518 50
	\$10,000 00	\$10,000 00

Salaries and Expenses—

Rev. O. L. Martin.....	\$	751 90	
Miss E. Leblanc.....		458 62	
Miss Eva Paré.....		461 58	
Miss J. Anctil.....		121 20	
Grants to Domestic Science Schools.....		5,529 42	
Macdonald College, grant special course.....		500 00	
Domestic Science Schools' Exhibit, Quebec.....		342 85	
Printing and stationery.....		315 93	
	\$	8,481 50	

15.—MAPLE SUGAR.

Grant, 1916-17.....	\$4,000 00	
Expended, March 31, 1917.....		\$2,343 51
Balance forward.....		1,656 49
	\$4,000 00	\$4,000 00

Allowances, Sugar Schools—

St. Louise.....	\$	992 54	
St. Casimir.....		330 00	
Beauceville.....		500 00	
A. Francoeur, travelling expenses.....		50 00	
Printing.....		304 37	
Supplies.....		166 60	
	\$	2,343 51	

16.—SHORT COURSES AND LECTURES.

Grant 1916-17.....	\$11,712 23	
Expended, March 31, 1917.....		\$10,645 60
Balance forward.....		1,066 63
	\$11,712 23	\$11,712 23

16.—SHORT COURSES AND LECTURES—*Concluded.*

<i>Salaries and Expenses—</i>	
Rev. A. Michaud.....	\$ 664 95
Jos. Pasquet.....	603 75
Rev. H. Bois.....	409 65
Rev. J. B. A. Allaire.....	460 20
J. G. Bouchard.....	719 31
J. D. Leclair.....	150 00
O. Gauvin.....	185 75
Jean Masson.....	400 00
Jos. Moren.....	751 65
A. Desilets.....	312 91
J. Masson.....	362 40
R. Gagnon.....	362 90
G. St. Pierre.....	451 36
J. Art. Paquet.....	150 00
J. L. A. Dupuis.....	505 40
Sundry persons, services, and expenses.....	2,367 39
Supplies and incidentals.....	279 23
Grant for Farmers' Special Course, St. Anne de la Pocatière.....	576 00
Oka Institute allowances for expenses.....	710 75
College of Agriculture, St. Thomas d'Aquin, grant for special course.....	222 00
	<u>\$ 10,645 60</u>

QUEBEC.

COMPARATIVE STATEMENT of Expenditure of Provincial Funds for Agricultural purposes for the Years 1913, 1914, 1915, 1916, and Estimated Expenditure for 1917 and 1918.

Service.	1913	1914	1915	1916	1917	1918
	to June 30.	to June 30.	to June 30.	to June 30.	to June 30.	to June 30 Estim- ated.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Civil Government Salaries and Contingencies.....	41,533 34	45,220 96	45,500 00	45,424 05	45,800 00	46,500 00
Agricultural Schools.....	20,208 39	18,534 99	29,863 09	30,000 00	30,000 00	30,000 00
Housekeeping Schools.....	10,000 00	18,500 00	10,290 29	8,518 00	12,000 00	10,000 00
Agricultural Societies.....	120,614 08	164,551 98	146,296 56	105,061 96	115,000 00	100,000 00
Farmers' Clubs or Agricultural Circles, including grant to S. Shore Railway..	90,851 82	99,650 00	97,000 00	148,020 10	85,000 00	100,000 00
Council of Agriculture.....	4,529 03	3,665 83	2,787 99	2,272 68	3,000 00	3,000 00
Horticultural and Agricultural Societies, Montreal and Provincial.....	1,000 00	1,000 00	1,000 00	1,000 00	1,500 00	1,500 00
Veterinary Instruction.....	5,994 96	5,500 00	4,772 68	6,500 00	5,500 00	5,500 00
Dairying.....	74,441 50	76,000 00	67,676 14	94,451 64	97,000 00	99,000 00
Dairy Factories Inspection.....					20,000 00	
Provincial Laboratory.....	2,000 00	1,540 24	2,000 00	4,000 00	2,000 00	2,000 00
Lectures on Agriculture.....	6,537 56	7,029 44	5,406 09	3,927 21	9,000 00	9,000 00
Fruit Growing.....	11,856 29	10,865 48	6,580 36	4,605 33	5,000 00	5,000 00
Poultry Raising.....	3,000 00	3,000 00	2,099 14	2,126 47	3,000 00	3,000 00
Journal of Agriculture.....	29,000 00	29,000 00	27,000 00	26,624 30	27,000 00	27,000 00
Agricultural Merit.....	4,000 00	2,607 65	3,270 38	3,298 40	3,500 00	3,500 00
Exhibitions.....	32,000 00	32,000 00	31,000 00	30,500 00	32,000 00	30,000 00
Miscellaneous.....	100 00	100 00	100 00	35 00	100 00	100 00
School of Agriculture, Ste. Anne de la Pocatière—						
Towards construction.....	10,000 00					
Towards maintenance.....	10,000 00	10,000 00				
Totals.....	477,666 98	528,766 57	482,642 72	516,365 14	496,400 00	475,100 00

MANITOBA.

AGREEMENT, 1916-17.

1 Instructors and Representatives.....	\$ 17,668 19
2 Instruction and demonstration.....	16,197 03
3 Women's Work.....	16,634 78
4 Boys' and Girls' Clubs.....	12,950 18
5 Bulletins and Printing.....	5,649 82
6 Miscellaneous.....	1,667 20
	<hr/>
	\$ 70,767 20

EXTENSION SERVICE.

The work of the Extension Service is carried on in close co-operation with Agricultural Societies, Home Economics Societies, the Agricultural College and the Departments of Agriculture and Education, and is included under the following headings:—

1. Short Course Schools;
2. District Representatives;
3. Boys' and Girls' Clubs;
4. Agricultural Society Activities;
5. Home Economics Work;
6. Farmers' Week;
7. Institute Lectures.

SHORT COURSES.

Greater attention was paid to the short course schools than in any previous year. Altogether 217 courses were held, these being divided as follows:—

- A. Agricultural and Home Economics—17 courses, each of two weeks' duration.
- B. Dressmaking, Millinery, Cooking, Canning and Home Nursing—169 courses, each of four or five days, for members of Home Economics societies.
- C. Agricultural Woodworking—18 courses, each of two weeks' duration for the older members of Boys' and Girls' Clubs; given during the summer vacation.
- D. 10 weeks short courses in Sewing and Cooking for the older girls who were enrolled in Boys' and Girls' Club work; held during the summer vacation.

The sessions at these courses ranged from 2½ to 3 hours each and the attendance was as follows:—

A.	836 men enrolled.	Aggregate attendance.....	\$ 15,158
	745 women	“ “ “ “	12,838
B.	4,187 “	“ “ “ “	37,702
	8,108 “	“ “ “ “	16,216
C.	360 boys	“ “ “ “	5,220
	230 girls	“ “ “ “	2,115
		<hr/>	
		Grand aggregate.....	\$ 83,309

NORMAL SCHOOL AGRICULTURAL COURSE.

In co-operation with the Field Husbandry and Poultry Husbandry Departments of the College, and the Dairy Branch of the Department of Agriculture, lectures were given at the Brandon Normal School. Later in the term a three weeks short course in Field Husbandry was carried on. At the close of the course an examination was held and most of those in attendance received first year standing in their subject at the Agricultural College.

DISTRICT REPRESENTATIVES.

Enlistments and retirements reduced the number of representatives from seven at the beginning to three at the end of the year. The work performed is similar to that carried on in other provinces, emphasis being placed on Short Course Schools, Boys' and Girls' Clubs, Field Demonstrations, Dairy and Poultry Improvement work, Live Stock judging, Plot Inspection, and toward the end of the year, the promotion of Rural Credits Associations among the farmers. In the short course work each representative took charge of a series of schools commencing about the end of November and continuing until March.

(BOYS' AND GIRLS' CLUBS.

In Boys' and Girls' Club work the Extension Service aided teachers and public school inspectors in encouraging all phases of agricultural and home economics work, and as a further assistance, the help of bankers, merchants, farmers, and various other organizations was sought and secured. Over 13,000 boys and girls were enrolled as members. The most popular lines of work were chicken raising, gardening, pig and calf raising, cookery and sewing. During the season 110 fairs were held at which over 11,000 members exhibited and fully 38,900 people attended. Two judges were supplied for practically all the fairs, one for girls' work and the other for boys' work. At the close of each fair, the exhibits were discussed and instructions given as to the best lines to adopt in making the following year's work a success.

AGRICULTURAL SOCIETY ACTIVITIES.

While the Agricultural Societies give valuable assistance to all phases of extension work, special mention should be made of the standing crop and good farming competitions, seed grain fairs, dressed poultry shows, and ploughing matches. About thirty of each of the above were held. Judges were supplied for all of these competitions, and advantage was taken of the occasion to discuss farming problems. The judges supplied were either members of the Agricultural College staff or men who had a wide farming experience. During 1917 summer-fallow competitions will be conducted.

There are 72 Agricultural Societies in the province, with a membership of about 8,000; all of the societies held either a summer or a fall fair and from three to ten judges were supplied for each fair, mainly for the live stock classes. An increasing number are asking for extension service judges for women's work.

HOME ECONOMICS SOCIETIES.

There are now over 100 societies in the province, with a membership of 4,000. While the energies of the members are being devoted mainly to Red Cross work, sufficient time was spared for attendance at short courses, as well as

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individual lectures and demonstrations. During the greater part of the year, from six to eight members of the staff devoted all their attention to the Home Economics Societies, mainly in giving demonstration lectures, and in conducting short courses.

During July three district Home Economics Conventions were held, at Dauphin, Boissevain, and Portage la Prairie, respectively. The programme for each of these Conventions was supplied for the most part by members of societies living within the district, which proved to be a splendid means of developing the latent talent of a large number of members

FARMERS' WEEK.

During the Winnipeg Bonspiel, held in February, the various farmers' organizations hold their annual conventions. The Provincial Seed Grain Fair is also held at this time, and the Extension Department co-operates in making these meetings as practical and helpful as possible. The attendance was between 1,400 and 1,500.

EDUCATIONAL EXHIBITS.

The Extension Service in co-operation with the College placed Educational Exhibits at a number of Agricultural Society Fairs as well as at the Brandon Exhibition and the International Soil Products Exhibition at Peoria, Illinois.

DAIRY PRODUCE GRADING.

This work is rapidly increasing each year. During the season of 1914 2,223 samples of creamery butter were examined and graded, representing 26,676 fifty-six pound boxes; 1915, 3,780 samples, representing 45,360 boxes; 1916, 4,518 samples, representing 67,770 boxes. Defects are pointed out and suggestions made for improving the quality. Sixty-eight car loads of creamery butter were exported during the year and a government grade certificate accompanied practically every car. The grading of cream and butter has been the means of greatly improving the standard of the creamery output.

To encourage and to further stimulate their best efforts in cream grading, pasteurization, and all other essentials necessary for the production of as large a percentage of "First Grade Butter" and "Specials" as possible, premiums were paid to creameries on the basis of quality of product.

Dairy instruction was continued in the northern part of the province, chiefly among the Ruthenians. About one hundred meetings were held, and over a thousand farm homes visited.

PUBLICATIONS.

The Publications Branch edited and supervised the printing and, to a large extent, the distribution of all agricultural literature published under the auspices of the Manitoba Department of Agriculture, whether the expense of publication was borne by the Dominion grant or paid for by Provincial moneys.

During the year 1916 from March 31 to December 31, the following publications were issued:—

	No. of Copies.
Bulletins.....	46,000
Circulars.....	30,000
Posters and Placards.....	15,000
Printed Programmes and folders.....	23,000
Printed forms.....	23,000
Circular letters and news letters, very many thousands.	

Early in the year 1916 a mailing machine was installed and mailing lists have been compiled and kept revised. The use of this machine enabled this Branch to conduct a great deal of mailing with expedition.

Very free use was made of circular letters, both in the way of collecting information and also of disseminating it. Conspicuously useful in this direction was a news service, by means of which every newspaper in Manitoba interested in agricultural progress was kept supplied with news on timely subjects. The news items supplied in these letters were very widely published. The effort to supply information was not confined to the English papers, but arrangements were made whereby a series of specially prepared agricultural articles were published in leading papers printed in the Swedish, Norwegian, French, Icelandic, German, Ruthenian, and Polish languages.

DEMONSTRATION FARMS.

In the report on the Agricultural Instruction Act for 1915-16 there appeared a statement showing the returns for the year from the fourteen demonstration farms established in 1913. One of these, situated at Killarney, consisting of approximately seventy-five acres, was purchased to be developed as a permanent Demonstration Station in the interests of horticultural work. Each of the other thirteen consisted of forty acres, secured under a ten-year lease, to be used for demonstrating the value of good cultivation, careful selection of seed, and the suitability of certain crop rotations as a means of increasing production in the province. Early in the year 1916 the Provincial Minister of Agriculture cancelled the agreements with the owners and operators of these farms, and hence their use as demonstration plots was discontinued.

Work on the Killarney Provincial Demonstration Farm is still in its early stages and not sufficiently advanced to report definite results. An eight-year rotation and a small amount of cultural work is all the cereal work that is being carried on, besides the production of feed for the live stock. Owing to the bad season, the crops were below the average. The grain in many cases was so poor that it was not threshed, and some that was threshed yielded very poorly. The early sown grain in every case was fairly good, the wheat yielding as high as 27 bushels and 20 pounds, oats 54 bushels, and barley 50. The late grain yielded: Wheat, 2½ bushels; oats, 22; barley, 24, spring rye, 30 bushels and 20 pounds. The crop of fodder corn was a success, yields running approximately 12 tons per acre.

POULTRY WORK.

A great deal of the work of this department consists of lectures to Boys' and Girls' Clubs, Dressed Poultry Fairs, Short Courses, and Normal Schools. Ten lectures were given to Boys' and Girls' Clubs during September and October; ten to Dressed Poultry Shows during November and December; sixty-one lectures at Short Course meetings, and eleven lectures to teachers at the Brandon and Portage la Prairie Normal Schools.

OFFICERS PROVIDED BY DOMINION GRANT.

Instructor, Gas Engines.....	A. C. Campbell.
“ Bee-keeping.....	R. M. Muckle.
“ Poultry.....	J. E. Bergey.
“ Dairying.....	W. J. Crow.
“ “	D. E. Mackenzie.
“ “	C. S. Prodan.

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Superintendent Killarney Demonstration Farm, Nelson S. Smith.
District Representative J. H. Kiteley.
" " Fred F. Parkinson.
" " W. R. Roberts.
Home Economics Lecturer..... Margaret Smith.
" " E. Crawford.
" " Lillian Clarke.
" " Caroline G. Senior.
" " R. M. Atkinson.
Stenographer, College Extension Division....
Accountant..... J. P. Grant (part salary).

MANITOBA.

GRANT OF 1916-17.

SUMMARY STATEMENT, April 1, 1916, to March 31, 1917.

No.	Classification.	Balances April 1, 1916.	Grant 2nd Variation.	Refunds.	Total Credits.	Ex- penditure.	Cr. Balance.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1	Instructors and Representatives...	6,831 81	17,668 19	.....	24,500 00	24,272 37	227 63
2	Instruction and Demonstration....	13,904 01	.....	.....	.....	.....	.....
	* 2,500 00	16,197 03	489 75	33,090 79	19,607 75	1,483 04	
	(\$12,000.00 for subsequent agree- ment).....	.....	.....	.....	12,000 00	.....	.....
		.....	.....	.....	21,090 79	.....	.....
3	Women's Work.....	765 22	16,634 78	.....	17,400 00	17,254 46	145 54
4	Boys' and Girls' Clubs.....	533 60	12,950 18	.....	13,483 78	13,450 83	32 95
5	Bulletins and printing.....	850 18	5,649 82	.....	6,500 00	6,320 59	179 41
6	Miscellaneous.....	1,603 56	1,667 20	.....	3,270 76	2,574 18	696 58
		26,988 38	70,767 20	489 75	86,245 33	83,480 18	2,765 15
		.....	.....	Plus....	12,000 00	Plus....	12,000 00
		.....	.....	.....	98,245 33	.....	14,765 15

(*From School Agriculture 1915-16.)

1. INSTRUCTORS AND REPRESENTATIVES.

Grant 1916-17.....	\$ 17,668 19	
Balance April 1.....	6,831 81	
Expended March 31, 1917.....		\$ 24,272 37
Balance forward.....		227 63
Salaries and Expenses.....	\$ 24,500 00	\$ 24,500 00

1. INSTRUCTORS AND REPRESENTATIVES—*Concluded.*

F. S. Jacobs, Prof. Animal Husbandry.....	\$	249	96
A. J. Galbraith, Instructor in Chemistry.....		1,283	31
Miss C. L. Groff, Instructor in Household Arts.....		866	64
J. A. Neilson, Secretary, Horticulture and Forestry.....		777	30
R. M. Muckle, Provincial Apiarist.....		1,462	51
J. E. Bergey, Demonstrator Poultry.....		533	32
L. A. Gibson, Dairy Instructor.....		1,587	34
W. J. Crowe, Dairy Instructor.....		2,348	35
W. J. G. Weiner, District Representative.....		2,064	61
L. V. Lohr, District Representative.....		1,195	46
N. S. Smith, Provincial Apiarist.....		2,118	87
W. R. Roberts, Secretary, Horticulture and Forestry.....		2,053	89
F. J. Hudson, District Representative.....		1,277	48
J. R. Bell, " " ".....		1,743	13
J. H. Kiteley, " " ".....		882	50
F. F. Parkinson, " " ".....		1,302	12
A. Skorobohocy, " " ".....		514	58
F. F. Boresky, " " ".....		462	04
S. J. Sigfuson, " " ".....		598	34
J. E. Sirrett, " " ".....		263	82
A. C. Campbell, " " ".....		375	00
R. W. Murchie, " " ".....		300	00
Incidentals.....		11	80
	\$	24,272	37

2. INSTRUCTION AND DEMONSTRATION.

Grant 1916-17 (\$12,000.00 for subsequent agreement).....	\$	16,197	03
Balances April 1, 1916, Instruction and Demonstration.....		13,904	01
School Agriculture, 1915-16.....		2,500	00
Refunds.....		489	75
Expended March 31, 1917.....	\$	19,607	75
Balance forward.....		1,483	04
Balance forward (subsequent agreement).....		12,000	00
	\$	33,090	79
	\$	33,090	79

<i>Killarney Farm—</i>			
Buildings.....	\$	2,197	73
Live Stock.....		387	18
Equipment.....		1,267	56
Maintenance and Supplies, Labour.....		2,892	57
	\$	6,745	04
Short Courses.....		6,428	39
Tile drainage M. A. C.....		2,192	12
District Representatives Expenses.....		1,388	18
Expenses special judges and lecturers.....		514	80
Equipment.....		130	13
Printing, stationery, incidentals.....		601	59
Baldur Farm.....		40	70
Grant Brandon Poultry Show.....		300	00
Prizes, Dressed Poultry.....		685	20
Seed Grain Prizes.....		84	05
Farmers' Week Prizes.....		64	00
Boys' and Girls' Club Prizes.....		25	00
Butter Contest Prizes.....		237	12
Wool Marketing.....		120	43
Incidentals.....		51	00
	\$	19,607	75

3. WOMEN'S WORK.

Grant, 1916-17.....	\$	16,634	78
Balance April 1, 1916.....		765	22
Expended March 31, 1917.....	\$	17,254	46
Balance forward.....		145	54
	\$	17,400	00
	\$	17,400	00

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3. WOMEN'S WORK—Concluded.

<i>Salaries and expenses—</i>	
Miss E. Crawford.....	\$ 2,338 41
Hattie M. Gowsell.....	892 85
Margaret Smith.....	2,205 36
Caroline G. Senior.....	1,716 31
L. Clark.....	1,695 00
R. M. Atkinson.....	861 32
Mrs. C. Graham.....	1,296 88
A. Hay.....	925 00
Mildred Tew.....	514 75
<i>Lecturers and Demonstrators—</i>	
Sundry persons.....	3,025 00
Supplies and Incidentals.....	214 09
Grants to Home Economics Societies.....	1,239 07
Grants Exchange Libraries.....	75 00
Prizes, Farm-house plans.....	117 90
Printing, etc.....	137 52
	<hr/>
	\$ 17,254 46

4. BOYS' AND GIRLS' CLUBS.

Grant, 1916-17.....	\$ 12,950 18	
Balance April 1, 1916.....	533 60	
Expended March 31, 1917.....		\$ 13,450 83
Balance forward.....		32 95
	<hr/>	<hr/>
	\$ 13,483 78	\$ 13,483 78
<i>Services and Expenses, Sundry persons, judges, lecturers, etc.</i>		
		\$ 8,999 09
Grants.....		838 70
Prizes.....		2,445 95
Printing.....		184 50
Supplies and incidentals.....		982 59
		<hr/>
		\$ 13,450 83

5. BULLETINS AND PRINTING.

Grant, 1916-17.....	\$ 5,649 82	
Balance, April 1, 1916.....	850 18	
Expended, March 31, 1917.....		\$ 6,320 59
Balance forward.....		179 41
	<hr/>	<hr/>
	\$ 6,500 00	\$ 6,500 00
Geo. Batho, salary.....		
	\$ 1,874 97	
Printing bulletins, circulars, and posters.....	4,303 18	
Advertising.....	142 44	
	<hr/>	
	\$ 6,320 59	

6. MISCELLANEOUS.

Grant, 1916-17.....	\$ 1,667 20	
Balance, April 1, 1916.....	1,603 56	
Expended, March 31, 1917.....		\$ 2,574 18
Balance forward.....		696 58
	<hr/>	<hr/>
	\$ 3,270 76	\$ 3,270 76
<i>Equipment—</i>		
Addressograph and plates.....	\$ 1,185 66	
Miscellaneous, including postage.....	1,088 52	
Salary, part, Jas. P. Grant, Accountant.....	300 00	
	<hr/>	
	\$ 2,574 18	

AGRICULTURAL AID GRANT 1912-1913.

EXPENDITURE TO MAY 31, 1916.

Demonstration Farms.....	\$ 5,425 90
Demonstration Trains.....	3,278 45
Agricultural meetings, lectures.....	1,046 10
Ploughing matches.....	230 98
Poultry Industry.....	985 20
Grants to Agricultural Societies.....	18,001 65
	<hr/>
	\$ 28,968 28
Balance unexpended.....	2,901 33
	<hr/>
	\$ 31,869 61

COMPARATIVE STATEMENT of Expenditure of Provincial Funds for Agricultural Purposes for the Years 1913, 1914, 1915 and 1916 and Appropriations for 1917.

Service.	1913	1914	1915	1916
	To Nov. 30	To Nov. 30.	To Nov. 30.	To Nov. 30.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Department—Salaries.....	14,729 97	14,700 00	14,555 00	12,522 26
Office expenses.....	1,675 28	1,496 07	1,727 81	1,990 39
Agricultural Societies and Farmers' Institutes.....	41,937 40	39,426 53	48,145 78	45,787 69
General Agriculture.....	7,309 06	8,315 60	9,799 69	23,429 90
Grants to Live Stock Associations, Winter Fairs, Exhibitions, and Societies (Dom. Fair, \$20,000.00, special in 1913).....	36,473 00	19,229 00	5,707 72	12,895 82
Manitoba Agricultural College—				
Salaries.....	68,393 02	76,190 00	103,709 95	101,369 45
Maintenance.....	36,461 85	52,172 71	65,791 83	75,246 52
Fuel.....	12,537 55	40,342 06	35,337 25	69,804 15
Totals.....	220,517 13	251,872 08	284,775 03	343,046 19
Revenue—				
Agricultural College fees, etc.....	16,509 91	18,175 77	42,876 10	63,146 01
Net total.....	204,007 22	233,696 31	241,898 93	279,900 18

SASKATCHEWAN.

AGREEMENT, 1916-17.

1. College of Agriculture.....	\$ 22,800 00
2. Instructors, Directors, Superintendents and District Representatives—Salaries and Expenses.....	30,700 00
3. Instruction and Demonstration in live stock, dairying, soils, crops, etc., including Short Courses.....	7,000 00
4. Women's Work.....	4,500 00
5. Bulletins and Miscellaneous printing.....	3,900 00
6. Agricultural instruction in Public, High, and Normal Schools—Nature Study, School Gardens, Domestic Science, Training of Teachers.....	4,500 00
7. Contingencies and miscellaneous.....	1,469 76
Total.....	\$ 74,869 76

BETTER FARMING TRAIN.

The number of places visited by the "Better Farming Train" in 1916 was 56, the distance travelled was 810 miles over Canadian Northern lines; the attendance was 22,673, made up of 8,245 men, 13,392 women and 5,455 children. The total cost was \$4,787. As in previous years, the college furnished the live stock for demonstration purposes as well as many other exhibits, and also supplied several members of its regular staff, who acted as lecturers and demonstrators. The railway company supplied the rolling stock and operated the train free of charge.

SHORT COURSES.

Under the Extension Division of the College of Agriculture, 59 Short Courses in Agriculture were held at 51 points. The aggregate attendance was 7,311. At a number of leading points separate classes were held for Normal School students with a view to awakening greater interest in Agriculture in the minds of those who intend entering the teaching profession. At the College of Agriculture, a two-weeks' course in traction engineering was held, with a regular attendance of 195 students. Apart from this, no short courses in agriculture were provided at the college during the year, the week usually devoted to this object being given over to the annual convention of live-stock breeders. Women's Institute courses were held during the winter at fifteen points, the total attendance being 756.

AGRICULTURAL AND HOUSEHOLD SCIENCE EDUCATION.

The policy of the Department of Education to extend and encourage instruction in Agriculture and Household Science in the Schools was continued under the direction of the Agricultural Instruction Committee. The Director of Household Science, Miss F. A. Twiss, was given the assistance of Miss H. McMurtry, who will instruct in Household Science at the Normal School at Regina. At the Saskatoon Normal School, the Director of Women's Work, Miss A. Delury will undertake similar duties.

Ninety-eight teachers took the course in Agriculture, conducted at the University, and twenty-one took the Household Science Course. The railway fares of teachers who satisfactorily complete a course are paid, and living accommodation is provided.

Seventy-five per cent of the schools of the province this year attempted garden work, and increased interest is being shown in the planting of school grounds. A bulletin of 70 pages entitled "The School Garden" was issued and distributed.

The number of School Fairs held during the year was 84, being exactly double that of the year previous. Many of these fairs were organized by Rural Education Associations. About 40 of these associations have been organized since 1915, with the object of promoting school fairs, contests for boys and girls and young people's clubs.

CO-OPERATION AND MARKETING.

The work of the Co-operation division of the Department of Agriculture is financed by the grant. During the year, 91 co-operative producing, marketing and purchasing associations were registered under the Agricultural Co-operative Associations Act, making a total of 352 since the Act first came into effect in December 1913. Throughout the year speakers were supplied to assist groups of farmers in organizing.

Continuing the co-operative wool marketing work begun in 1914, the division proceeded to act as a marketing agency for producers. Under arrangement with the Dominion Live Stock Branch expert graders were supplied. Poultry marketing stations at Regina and Saskatoon were operated from November to January, as in previous years, the project being advertised by posters and leaflets.

The division again undertook the work of supplying flower and vegetable seed for school and home gardens at a nominal cost. Upwards of 400 schools were supplied with seeds of varieties known to be suited to Saskatchewan conditions.

UNIVERSITY OF SASKATCHEWAN.

The work performed by the College of Agriculture of the University of Saskatchewan comprising College Extension, investigation and research, was outlined somewhat fully in the report of 1915-16, pp. 71-72. In the fields of investigation and research the work was continued in 1916-17 on the lines indicated in that report, and it is unnecessary to again refer to it in detail. The nature of the Extension work carried on is indicated in the summary that follows:—

SUMMARY OF ACTIVITIES.

During the year ended June 30, 1917, there were held at the Agricultural College of the University of Saskatchewan and at various points in the Province the following:—

	Attendance.
At the University—	
Summer School.....	123
Agricultural Societies' Convention.....	200
Live Stock Convention.....	120
Dairymen's Convention.....	100
Short Course in Traction Engineering.....	195
Veterinary Short Course.....	50
Short Courses for Returned Soldiers.....	76
Short Course for Young Girls.....	80
Home-makers' Convention in 1917.....	300
Excursions to the College.....	3,000
	<hr/> 4,244
At various points in the Province—	
13 Spring Shows.....	250
62 Ploughing matches.....	7,000
100 Junior exhibitions for children.....	15,000
60 Seed Fairs.....	5,500
15 Conferences with home-makers.....	756
59 Short Courses for farmers.....	7,300
1 Better Farming Special, in 1917.....	40,000
124 Exhibitions (excluding those at Regina, Saskatoon, Battleford, Prince Albert, and Weyburn).....	12,000
	<hr/> 87,806
	<hr/> 92,050

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OFFICERS PROVIDED BY THE DOMINION GRANT.

(A) Officers, regularly employed, whose salaries are paid from the Agricultural Instruction Grant.

Field Representative, J. W. Hunter, Live Stock Branch, Department of Agriculture, Regina.

Dairy Inspector, J. A. McDonald, Department of Agriculture, Regina.

Dairy Inspector, P. E. Reed, Department of Agriculture, Regina.

Field Representative, L. C. Wirtz, Dairy Branch, Department of Agriculture, Wadena.

District Representative, J. G. Rayner, North Battleford.

Professor of Cereal Husbandry, G. H. Cutler, Saskatoon.

Professor of Animal Husbandry, A. M. Shaw, Saskatoon.

Assistant Professor of Animal Husbandry, W. H. J. Tisdale, Saskatoon.

Assistant Professor of Agricultural Engineering, J. MacGregor Smith, Saskatoon.

Professor of Poultry Husbandry, R. K. Baker, Saskatoon.

Assistant Professor of Dairying, K. G. MacKay, Saskatoon.

Assistant Professor of Physics, A. E. Hennings, Saskatoon.

Assistant Professor of Chemistry, T. Thorvaldson, Saskatoon.

Director of Women's Work, Miss A. Delury.

Lecturer for Homemakers' Clubs, Miss Daisy Harrison.

Director, School Agriculture, F. W. Bates, Department of Education, Saskatoon.

Director, School Agriculture, A. W. Cocks, Department of Education, Regina.

Director, Household Science, Miss F. A. Twiss, Department of Education, Regina.

Assistant Household Science, Miss Helen McMurtry, Department of Education, Regina.

(B) Officers, regularly employed, whose salaries are paid in part from the Agricultural Instruction Grant.

Director, Co-operative Work, W. W. Thompson, Department of Agriculture, Regina.

Assistant Director, Co-operative Work, *W. G. Mawhinney, Department of Agriculture, Regina.

(C) Officers employed a part of each year whose salaries are paid from the Agricultural Instruction Grant.

Field Representative, J. S. Fulton, Live Stock Branch, Department of Agriculture, Regina.

Field Representative, M. P. Tullis, Weeds Branch, Department of Agriculture, Saskatoon.

Field Representative, Wm. Thomson, Weeds Branch, Department of Agriculture, Verigin, Sask.

Field Representative, R. J. Lewis, Weeds Branch, Department of Agriculture, Vandura, Sask.

Field Representative, W. E. Walker, Weeds Branch, Department of Agriculture.

Field Representative, J. S. Naylor, Weeds Branch, Department of Agriculture.

Field Representative, A. J. McPhail, Live Stock Branch, Department of Agriculture.

*Enlisted

SASKATCHEWAN.

GRANT OF 1915-16.

SUMMARY STATEMENT, April 1, 1916, to September 30, 1916.

No.	Classification.	April 1, 1916, Balances.	Transfer.	Total Credits.	Expendi- iture.	Cr. Baiaance., Sept. 30, 1916.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1	College of Agriculture.....	13,614 43		13,614 43	13,473 85	140 58
4	Women's Work.					
2	Instructors, directors, superintend- ents and district representatives, salaries and expenses.....	19,686 37		19,686 37	11,251 35	8,435 02
3	Instruction and demonstration in live stock, dairying, soils, crops, etc., including short courses.....	5,592 02		5,592 02	2,111 92	3,480 10
5	Boy's and Girl's work.....	1,100 00		1,100 00	1,100 00	
6	Bulletins and miscellaneous pay- ments.....	1,746 97		1,746 97	1,608 89	138 08
7	Instruction in public, high and normal schools in agriculture, nature study and domestic science, school gardens, training of teachers.....	878 30	1,100 00	1,978 30	1,282 02	696 28
8	Contingencies and miscellaneous....	849 01		849 01	722 61	126 40
	Interest accrued.....	114 24		114 24		114 24
		43,581 34	1,100 00	44,681 34	31,350 64	13,130 70

1. and 4.—COLLEGE OF AGRICULTURE.

Balance, brought forward, April 1, 1916.....	\$ 13,614 43	
Expended to September 30, 1916.....		\$ 13,473 85
Balance on hand, September 30, 1916.....		140 58
	\$ 13,614 43	\$ 13,614 43

DETAILS.

<i>Instruction and Research—</i>		
Salaries—		
Seven professors, and assistants, part time.....	\$ 3,903 72	
Two professors, full time.....	2,050 00	
Four assistants in Field Husbandry Work.....	1,619 14	
<i>Extension Work—</i>		
Salaries—		
Six professors and assistants, part time.....	2,888 74	
Director and lecturer in Women's work.....	1,435 12	
Expenses, women's work.....	1,577 13	
	\$ 13,473 85	

2.—INSTRUCTORS, DIRECTORS, SUPERINTENDENTS AND DISTRICT REPRESENTATIVES—SALARIES AND EXPENSES.

Balance on hand, March 31, 1916.....	\$ 19,686 37	\$
Expended to September 30, 1916.....		11,251 35
Balance on hand, September 30, 1916.....		8,435 02
	\$ 19,686 37	\$ 19,686 37

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DEPARTMENT OF AGRICULTURE.

	Salary.	Expenses.	
<i>Live Stock—</i>			
J. W. Hunter, Field Representative.....	\$ 600 00	\$ 644 45	
J. S. Fulton, Field Representative.....	493 33	621 80	\$ 2,359 58
<i>Weeds—</i>			
W. W. Thomson.....	\$.....	\$ 110 34	
W. E. Walker.....		30 00	
M. P. Tullis.....		97 80	
J. S. Naylor.....	400 00	326 60	
R. E. Lewis.....	203 23	254 35	
			1,422 32
<i>Dairying—</i>			
J. A. McDonald.....	\$ 650 00		
P. Reed.....	750 00	\$ 234 55	
L. C. Wirtz.....	500 00		
Dairy Special.....		159 40	
Dairy Branch (Butter).....		17 36	
			2,311 31
<i>Co-operative Work—</i>			
W. W. Thomson.....	\$.....	\$ 8 04	
W. G. Mawhinney.....	466 67		474 71
<i>District Representative—</i>			
J. G. Rayner.....	\$ 533 32	\$.....	533 32

EDUCATION DEPARTMENT.

Miss F. A. Twiss.....	\$ 833 36	\$ 206 45	
A. W. Cocks.....	1,200 00	346 65	
F. W. Bates.....	1,200 00	263 65	
H. McMurtry.....	100 00		4,150 11
			\$ 11,251 35

3.—INSTRUCTION AND DEMONSTRATION.

Balance, April 1, 1916.....	\$ 5,592 02		
Expended.....		\$ 2,111 92	
Balance, October 1, 1916.....		3,480 10	
	\$ 5,592 02	\$ 5,592 02	
<i>Better Farming Train—</i>			
Salaries.....	\$ 1,119 50	\$	
Maintenance.....	571 96		
Equipment.....	85 26	1,776 72	
<i>District Representative—</i>			
J. G. Rayner, expenses.....		335 20	
		\$ 2,111 92	

6.—BULLETINS AND PRINTING.

Balance on hand, March 31, 1916.....	\$ 1,746 97		
Expended to September 30, 1916.....		\$ 1,608 89	
Balance.....		138 08	
	\$ 1,746 97	\$ 1,746 97	
<i>Department of Agriculture—</i>			
Co-operative Work.....	\$ 287 24		
Better Farming Train.....	651 14		
Dairying.....	257 23	\$ 1,195 61	
<i>Education Department—</i>			
Office supplies.....	\$ 30 98		
Etching and half tone.....	6 50		
Multigraphing circular letters.....	121 59		
Postage for distribution.....	175 00		
Bulletin No. 6 ,The School Garden.....	566 00		
Bulletin No. 5, School Fairs.....	76 01	976 08	
		\$ 2,171 69	
Less interest.....		562 80	
		\$ 1,608 89	

7.—SCHOOL INSTRUCTION IN AGRICULTURE.

Balance, March 30, 1916.....	\$	878 30		
Boys' and girls' work.....		1,100 00		
Expended to September 30, 1916.....	\$		1,282 02	
Balance, October 1, 1916.....			696 28	
	\$	1,978 30	\$	1,978 30

INSTRUCTION IN PUBLIC HIGH AND NORMAL SCHOOLS IN AGRICULTURE, NATURE STUDY AND DOMESTIC SCIENCE; SCHOOL GARDENS, TRAINING FOR TEACHERS.

Seeds for Normal School.....	\$	8 06		
Normal School Garden (Labour).....		188 02		
R. F. Meadows, Special Lecturer.....		7 55		
D. P. McColl, Special Lecturer.....		4 85		
J. H. H. Davies, Demonstrator.....		6 10		
David Swan, Demonstrator Teachers' Convention, Prince Albert.....		38 80		
Summer Schools—				
Regina (1915).....		11 38		
Saskatoon (1916)—				
Fares, etc. to teachers attending.....		680 10		
Supplies.....		42 71		
Isabel Shaw, teacher, Household Science.....		121 15		
Helen McMurtry, teacher, Household Science.....		125 50		
Fannie Twiss, Director Household Science.....		47 80	\$	1,282 02

8.—CONTINGENCIES AND MISCELLANEOUS.

Balance, April 1, 1916.....	\$	849 01		
Expended to April 1, 1916.....			\$	722 61
Balance, October 1, 1916.....				126 40
	\$	849 01	\$	849 01

Agricultural Department—				
Co-operative work.....	\$	53 76		
Dairy.....		62 90		
Better Farming Train.....		25 18		
Saskatchewan Veterinary Association.....		500 00		
			\$	641 84
Education Department—				
School Garden Model.....	\$	12 96		
Lantern slides.....		37 06		
Apparatus for Domestic Science, etc.....		22 55		
Agricultural Instruction Committee.....		8 20		
				80 77
				\$722 61

SASKATCHEWAN.

GRANT OF 1916-17.

SUMMARY STATEMENT, October 1, 1916, to March 31, 1917.

Classification.	Balances, October 1, 1916.	Grant.	Refunds	Total Credits.	Expendi- - ture.	Cr. Balances.
No.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1. College of Agriculture.....		22,800 00	}	27,440 58	13,796 01	13,644 57
4. Women's work.....	140 58	4,500 00				
2. Instructors, directors, super- intendents, and district re- presentatives: salaries and expenses.....	8,435 02	30,700 00		39,135 02	14,311 39	24,823 63
3. Instruction and demonstra- tion in live stock, dairying, soils, crops, etc., including short courses.....	3,480 10	7,000 00		10,480 10	3,145 26	7,334 84
5. Bulletins and miscellaneous printing.....	138 08	3,900 00		4,038 08	591 45	3,446 63
6. Instruction in public, high, and normal schools in agri- culture, nature study, and domestic science, school gar- dens, training of teachers...	696 28	4,500 00	20 40	5,216 68	131 50	5,085 18
7. Contingencies and miscella- neous.....	126 40	1,469 76		1,596 16	174 12	1,422 04
Interest accrued.....	114 24		104 72	218 96		218 96
	13,130 70	74,869 76	125 12	88,125 58	32,149 73	55,975 85

DETAILED STATEMENT of Expenditures, October 1, 1916 to March 31, 1917.

1 AND 4. COLLEGE OF AGRICULTURE.

Grant, 1916-17—College of Agriculture.....	\$22,800 00	
Women's Work.....	4,500 00	
Balance brought forward, October 1, 1916.....	140 58	
Expended to March 31, 1917.....		\$13,796 01
Balance on hand, March 31, 1917.....		13,644 57
	\$27,440 58	\$27,440 58

DETAILS.

Instruction and Research—	\$ cts.
Salaries—	
Seven Professors and assistants, part time.....	4,374 90
Two professors, full time.....	2,099 94
Four assistants in Field Husbandry work.....	1,141 12
Four assistants in Soil analysis.....	735 00
Extension Work—	
Salaries and expenses—	
Six Professors and assistants, part time.....	2,974 98
Director and Lecturer in Women's Work.....	1,215 00
Expenses, Women's Work.....	1,255 07
	\$13,796 01

2. INSTRUCTORS, DIRECTORS, SUPERINTENDENTS, AND DISTRICT REPRESENTATIVES—SALARIES AND EXPENSES.

	\$	cts.	\$	cts.
Grant, 1916-17.....	30,700	00		
Balance on hand, October 1, 1917.....	8,435	02		
Expended, March 31, 1917.....			14,311	39
Balance on hand, March 31, 1917.....			24,823	62
	39,135	02	39,135	02

DEPARTMENT OF AGRICULTURE.		Salary.	Expenses.				
		\$	cts.	\$	cts.	\$	cts.
<i>Live Stock—</i>							
J. W. Hunter.....		600	00	439	19		
A. J. McPhail.....		375	00				
J. S. Fulton.....		100	00	36	65		
M. P. Revanal.....				6	00		
J. W. Leedy.....				76	50		
						1,687	34
<i>Weeds—</i>							
W. E. Walker.....		100	00	118	00		
M. P. Tullis.....		200	00	87	90		
Wm. Thompson.....		400	00	394	50		
J. S. Naylor.....				228	12		
Incidentals.....				20	80		
						1,549	32
<i>Dairying—</i>							
J. A. McDonald....		700	00	282	50		
P. E. Reed.....		875	00	260	10		
L. C. Wirtz.....		700	00	126	93		
F. M. Logan.....		450	00				
D. McLeod.....		349	98	153	90		
H. J. Crowe.....		300	00				
						4,198	41
<i>Co-operative Work—</i>							
W. W. Thomson.....		774	42	148	20		
Incidentals.....				106	29		
						1,031	91
<i>District Representative—</i>							
J. G. Rayner.....		933	31	117	80		
						1,051	11
EDUCATION DEPARTMENT.							
Miss F. A. Twiss.....		900	02	301	14		
A. W. Cocks.....		1,200	00	173	81		
F. W. Bates.....		1,200	00	382	85		
Miss H. McMurtry.....		635	48				
						4,793	30
						14,311	39

3. INSTRUCTION AND DEMONSTRATION.

	\$	cts.	\$	cts.
Grant. 1916-17.....	7,000	00		
Balance on hand, April 1, 1916 ..	3,480	10		
Expended, April 1, 1917.....			3,145	26
Balance on hand, April 1, 1917.....			7,334	84
	10,480	10	10,480	10

<i>Better Farming Train—</i>		2,353	96
Sustenance and travelling expenses.....		791	30
Equipment.....			
		3,145	26

5. BULLETINS AND PRINTING.

Grant, 1916-17.....	3,900	00		
Balance, October 1, 1916.....	138	08		
Expenditure.....			591	45
Balance, April 1, 1917.....			3,446	63
	4,038	08	4,038	08

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5. BULLETINS AND PRINTING—*Concluded.*

DEPARTMENT OF AGRICULTURE.	\$	cts.	\$	cts.
<i>Printing Bulletins and Circulars for Co-operative Work—</i>				
King's Printer.....	295	55		
Saturday Press and Prairie Farm.....	36	25		
			351	80

EDUCATION DEPARTMENT.

<i>Bulletins and Miscellaneous Printing—</i>				
Office supplies.....	72	35		
Multigraphing circular letters.....	5	35		
Postage on publications.....	100	00		
Rural Educational Monthly (Jan.).....	46	00		
Report forms, Director of Household Science.....	15	95		
			239	65
			591	45

6.—SCHOOL INSTRUCTION IN AGRICULTURE.

	\$	cts.	\$	cts.
Grant, 1916-17.....	4,500	00		
Balance, Oct. 1, 1916.....	696	28		
Expended, March 31, 1917.....			111	10
Balance, April 1, 1917.....			5,085	18
	5,196	28	5,196	28

INSTRUCTION IN PUBLIC, HIGH AND NORMAL SCHOOLS IN AGRICULTURE, NATURE STUDY, AND DOMESTIC SCIENCE, SCHOOL GARDENS, TRAINING OF TEACHERS.

Summer School, Saskatoon, 1916—

	\$	cts.	\$	cts.
Janitor, Victoria School, Saskatoon.....	25	00		
Railway fares of Normal students to Indian Head to visit Experimental Farm.....	106	50	131	50
Less refunds.....			20	40
			111	10

7.—CONTINGENCIES AND MISCELLANEOUS.

	\$	cts.	\$	cts.
Grant, 1916-17.....	1,469	76		
Balance, Oct. 1, 1916.....	126	40		
Expenditure, Mar. 31, 1917.....			174	12
Balance, April 1, 1917.....			1,422	04
	1,596	16	1,596	16

Education Department—

School Garden Model.....	0	50		
Lantern Slides.....	4	25		
Agricultural Institute Committee.....	41	30		
Chemical supplies.....	1	50		
Express.....	4	35		
Periodicals and books.....	22	92		
Telephone rental, Miss Twiss.....	20	50		
School Fairs.....				
Detail.....	78	80	174	12
			174	12

COMPARATIVE STATEMENT of Expenditure of Provincial Funds for Agricultural purposes for the Years 1913, 1914, 1915, and estimated for 1916 and 1917

Service.	1913-14. To April 30.	1914-15. To April 30.	1915-16. To April 30.	1916-17. To April 30 (estimated)	1917-18. To April 30 (estimated)
	14 mths. \$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Department—Salaries and general ex- pense.....	41,186 38	39,536 09	66,347 93	40,795 00	34,830 00
General Agricultural Interests, Agricul- tural Societies, Provincial Organization, Grants, Contingencies.....	56,148 90	67,739 52	68,549 34	67,600 00	67,600 00
Live Stock Industry.....	68,575 84	23,593 85	35,636 95	30,300 00	32,700 00
Dairy and Poultry Industries.....	471,272 25	84,600 63	87,986 43	71,100 00	**16,300 00
Agricultural Statistics and Publicity.....	33,413 43	36,404 16	26,635 82	26,900 00	21,600 00
Bacteriological Laboratory.....	8,111 11	8,443 74	8,040 88	8,400 00	.....
Weed Control and Game Protection.....	18,398 52	19,588 94	18,272 69	8,900 00	10,400 00
				Weeds 10,100 00	11,200 00
				Game	
Bureau of Labour— Farm and Domestic labour and factory inspection.....	55,542 00	8,968 35	7,594 60	9,600 00	10,100 00
Miscellaneous Service — *Vital statistics, Natural History Scholarships, Brands, etc.....	27,892 19	24,352 72	21,235 31	9,100 00	1,100 00
Totals.....	780,540 62	337,228 00	340,299 95	282,795 00	205,830 00
Less Revenue.....	552,340 78	179,291 51	104,283 41	95,500 00	37,000 00
	228,199 84	175,936 49	236,016 54	187,295 00	168,830 00

*Note.—Vital Statistics transferred to Bureau of Public Health at beginning of fiscal year 1914-15.
**Advances to creameries, \$60,000 for purchase of milk and cream not included in 1917-18.

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ALBERTA

AGREEMENT, 1916-17.

	\$	cts.	\$	cts.
1. Schools of Agriculture—				
Maintenance.....	34,000	00		
Equipment.....	1,200	00		
			35,200	00
2. Instructors, Demonstrators and District Agents.....			7,500	00
3. Instruction and Demonstration—				
Demonstration Farms.....	6,500	00		
Demonstration Trains.....	5,000	00		
Dairying.....	2,000	00		
			13,500	00
4. Women's Work.....			3,000	00
5. Bulletins, Publications, Printing.....			2,500	00
6. Miscellaneous.....			47	22
			61,747	22

SCHOOLS OF AGRICULTURE.

The three schools located at Claresholm, Olds and Vermilion respectively, have continued to have a good attendance of both boys and girls in spite of the fact that many young men have enlisted. The actual attendance in 1916-17 was as follows:—

Claresholm.....	70 boys.	40 girls.
Olds.....	64 boys.	55 girls.
Vermilion.....	47 boys.	19 girls.

The staffs from each of the schools were engaged during the summer in extension work of various kinds. Five of the men acted as District Agents, carrying on club work particularly. The instructors acted as judges at fairs, addressed meetings over the country and carried on different kinds of investigational work including experimental work in the field husbandry at each of the schools. The female teachers were employed in addressing women's institute meetings.

INSTRUCTION AND DEMONSTRATION.

Under the heading of Demonstration Farms, the full amount of this vote was spent in the purchase of live stock, especially in securing good bulls as herd headers for the different farms. Some of the choicest male animals that it was possible to buy were secured including the dairy shorthorn bull "Director", now located at the Olds Demonstration Farm, and the Holstein bull, "King Segis Pontiac Alcartra 11th", located at the Stony Plain Farm. Some good females were purchased also.

DEMONSTRATION TRAIN.

This train was operated during July and August and covered about 65 places. The three lines of railway furnished the equipment including coaches, engine, diner and sleeper, each railway hauling the train free of charge. The heads of the various branches of the Department, including the principals of the Schools of Agriculture, prepared the exhibits. Either the head of each branch or an assistant accompanied the train through the entire period, giving demonstrations and lectures. A large number of people visited the train and very encouraging comments were made by those who attended, respecting the exhibits and the kind of information given.

DAIRYING.

The District Agents carried on cow testing work during the summer, encouraging people to weigh and test the milk of their cows. The work consisted principally of actually gathering the samples, checking the weights and making the tests.

WOMEN'S WORK.

The Women's Institute branch of the Department engaged actively in organizing institutes, in holding short courses and in giving lectures and demonstrations. This work has progressed very rapidly and is providing valuable education, particularly to those who live some distance from centres.

OFFICERS WHOSE SALARIES ARE PROVIDED BY THE DOMINION GRANT.

(A) *Officials whose salaries are paid wholly from the Agricultural Instruction Grant:—*

Instructor in Dairying and Dairy Farming, S. G. Carlyle, Department of Agriculture, Edmonton.

Editor of Publications, Jas. McCaig.

Stenographer.

(B) *Officials whose salaries are paid in part from the Agricultural Instruction Grant:—*

Vermilion School—

Principal, F. S. Grisdale.

Stenographer.

Instructor in Science.

Plotman, Robt. Pilkie.

Instructor in Domestic Science.

Assistant Instructor in Domestic Science, A. M. Lavalee.

Laborer.

Olds School—

Principal, W. J. Elliott.

Agricultural Mechanics, G. R. Holeyton.

Instructor in Science, Jas. G. Taggart.

Agronomist, H. Saville.

English Instructor, J. J. Loughlin.

Instructor, Household Science, Miss Elizabeth Cumming.

Assistant Instructor, Household Science, Miss Marion E. Storey.

Stenographer.

Claresholm School—

Principal, W. J. Stephen.

Instructor in English and Elementary Science, J. C. Hooper.

“ Animal Husbandry.

“ Domestic Science, Myrtle A. Hayward.

“ Assistant Instructor, Domestic Science, Grace Robertson.

Stenographer.

Teamster.

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Women's Institutes—

Superintendent, Miss Mary Melsaacs, Department of Agriculture, Edmonton.

Stenographer.

Assistant Superintendent, Mrs. Jean Muldrew.

Demonstrator, Miss Bessie McDermant.

Instructress in Nursing, Miss Annie McKenzie.

“ Miss L. Bessie Sargent.

District Agents—

H. H. McIntyre, Stony Plain.

H. W. Scott, Claresholm.

W. Geo. Payne, Vermilion.

ALBERTA

GRANT OF 1916-17.

SUMMARY STATEMENT, April 1, 1916, to March 31, 1917.

No.	Classification.	Balances April 1, 1916.	Grant.	Total Credits.	Expendi- ture.	Dr. Balance.	Cr. Balance.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1	Schools of Agriculture—						
	(a) Maintenance.....	6,429 63	34,000 00	40,429 63	30,164 12		10,265 51
	(b) Equipment.....	326 27	1,200 00	1,526 27	2,653 86	1,127 59	
2	Provincial Instructors—Dairying—	152 56	3,500 00	3,652 56	3,040 69		611 87
3	Instruction and Demonstration—						
	(a) Demonstration Farms..Dr.	2,406 52	6,500 00	4,093 48	3,484 86		608 62
	(b) Demonstration Trains.....	42 88	5,000 00	5,042 88	5,233 63	190 75	
	(c) Dairying.....	2,119 19	2,000 00	4,119 19	2,212 16		1,907 03
	(d) District Agents.....		4,000 00	4,000 00	4,293 59	293 59	
4	Women's Work.....	27 61	3,000 00	3,027 61	2,209 75		817 86
5	Bulletins and Publications.....	1,024 01	2,500 00	3,524 01	2,121 00		1,403 01
6	Miscellaneous.....	806 63	47 22	853 85			853 85
	Interest accrued.....	642 85		642 85			
	Interest, 1916-17.....			555 05			1,197 90
		9,165 11	61,747 22	71,467 38	55,413 66	1,611 93	17,665 65

1.—SCHOOLS OF AGRICULTURE.

(a) MAINTENANCE.

	\$ cts.
Salaries and wages.....	13,423 34
Travelling expenses.....	1,196 30
Maintenance and Supplies.....	13,956 26
Printing and advertising.....	1,548 22
Incidentals.....	40 00
	\$30,164 12

(b) EQUIPMENT.

	\$ cts.
Apparatus, appliances, implements, etc.....	2,273 47
Books and magazines for Libraries.....	380 39
	2,653 86

2.—INSTRUCTION IN DAIRYING.

S. G. Carlyle, salary.....	\$ 3,000 00
Printing.....	40 69
	<hr/>
	\$ 3,040 69

3. INSTRUCTION AND DEMONSTRATION.

(a) DEMONSTRATION FARMS.

Purchase of Breeding Stock and Incidental Expenses.....	\$ 6,120 05
Refund—Sale of animals.....	2,644 19
	<hr/>
	\$ 3,484 86

The above includes the purchase price of the Holstein bull “ King Pontiac Segis Alcarta 11th,” No. 26692, and of 10 head of pure-bred Hereford cattle.

(b) DEMONSTRATION TRAIN.

Wages.....	\$ 70 13
Travelling.....	560 88
Supplies and Maintenance.....	3,702 70
Printing and Advertising.....	832 42
Incidentals.....	67 50
	<hr/>
	\$ 5,233 63

(c) DAIRY COMPETITIONS.

Travelling.....	\$ 297 00
Supplies and Maintenance.....	1,307 16
Premiums—Live Stock.....	587 00
Printing and Advertising.....	21 00
	<hr/>
	\$ 2,212 16

(d) DISTRICT AGENTS.

Travelling.....	\$ 1,287 31
Supplies and Maintenance.....	2,423 44
Prizes, Schools of Agriculture Competitions.....	274 50
Printing and Advertising.....	308 34
	<hr/>
	\$ 4,293 59

4. WOMEN’S WORK.

Salaries—Miss Mary McIsaacs, Superintendent, and Staff.....	\$ 1,000 00
Travelling.....	678 43
Printing, Advertising and Stationery.....	520 82
Incidentals.....	10 50
	<hr/>
	\$ 2,209 75

5. BULLETINS AND PUBLICATIONS.

Salaries—Jas. McCaig, Editor of Publications, and Staff.....	\$ 2,059 67
Supplies and Printing.....	61 33
	<hr/>
	\$ 2,121 00

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COMPARATIVE STATEMENT of Expenditure of Provincial Funds for Agricultural Purposes for the years 1913, 1914, 1915, and Appropriations for 1916 and 1917.

Service.	1913.	1914.	1915.	1916 Appropriations.	1917 Appropriations.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Civil Government	30,329 30	36,911 29	48,329 94	49,520 00	54,940 00
Live Stock—					
Live Stock and Agricultural Institutes and Associations; Fat Stock Shows; Destruction of Wolves; Stock Inspection; Brands and Brand Book; Grants to Live Stock Associations; Spring Stock Show.....	44,789 38	60,981 07	47,736 83	46,100 00	52,700 00
Fairs and Exhibitions—					
Official Judges, Production of Pure Seed Grain, and Seed Fair, Fairs Association, etc.....	95,826 51	107,365 49	117,226 18	121,500 00	112,500 00
Poultry—					
To encourage Poultry Industry; Grant to Poultry Association.....	8,972 65	8,547 83	8,300 37	8,200 00	8,700 00
Dairying—					
Advances to Creameries; to encourage dairy work.....	111,710 36	175,024 84	249,851 53	19,500 00	19,500 00
Demonstration Farms—					
Administration and Operation.....	73,620 58	66,840 44	70,231 95	65,000 00	65,500 00
Schools of Agriculture—					
Operation; Agricultural Instruction, Scholarships.....	3,605 95	1,375 40	20,503 11	20,500 00	20,000 00
Statistics, Protection of Game, Prairie Fires.....	34,270 19	48,373 26	45,371 79	32,500 00	36,000 00
Grants—					
United Farmers Irrigation Association, Women's Institutes, Destruction of Noxious Weeds, Natural History Society.....	30,591 45	31,708 08	27,640 66	30,000 00	35,000 00
Bacteriological and Pathological Work ..	7,705 80	9,000 00	9,000 00	.....	.....
Sundries and Contingencies.....	1,003 51	500 00	1,694 19	1,000 00	1,200 00
	442,425 68	546,627 70	645,786 55	393,820 00	406,040 00
LESS Revenue.....	202,268 00	272,318 00	342,086 00	.....	.....
	240,157 68	274,309 70	303,700 55	.....	.....

BRITISH COLUMBIA

AGREEMENT OF 1916-1917.

1 Towards appointment of Inspectors, Instructors, Directors, Superintendents and District Representatives.....	\$ 19,000 00
2 Farm demonstration and experimental work, field crop competitions, boys' and girls' clubs, crop and stock competitions, cow-testing associations, poultry demonstration stations, co-operative variety tests.....	16,000 00
3 Horticulture demonstration stations, experimental work in vegetable growing and greenhouse work, pathological and entomological investigation work, demonstration and experimental work in various cultural practices in fruits and vegetables.....	7,000 00
4 Agricultural Journal, bulletins, reports, circulars and miscellaneous printing.....	5,000 00
5 Department of Education, towards agricultural instruction in Public, Normal and High Schools.....	15,000 00
6 Contingencies and miscellaneous.....	1,732 50
Total.....	\$ 63,732 50

During the year the following lines of work were carried out under the Agricultural Instruction Grant:—

Poultry Breeding Stations.—A number of these stations have been established in the more remote sections. A flock consisting of 20 hens and 2 male birds, is supplied to each individual who is selected to carry on the work. In addition to experimental or demonstration work, the operator is required to sell at least 15 settings of eggs at not more than \$1 per setting. At the end of the year the flock becomes the property of the man in charge. This work has proved very valuable in supplying suitable foundation stock in new districts.

Egg-laying Competition.—Forty pens of poultry, consisting of six birds each, are included in this competition. Not only are records kept of the number and weight of eggs produced by each pen, but, in addition, valuable information has been secured regarding the cost of production and the relative value of various foods.

Silos.—The building of the first silo in a district is supervised and silo-filling demonstrations conducted. Two small silo-filling outfits have been used. The results have exceeded the most optimistic expectations. There are now 500 silos in the Province, as compared with ten when the work started.

Boys' and Girls' Clubs.—Boys' and Girls' Clubs have been organized in various parts of the province. Under the auspices of these clubs, competitions are conducted in poultry raising, potato growing, grain growing, pig raising, and calf raising.

Seed Fairs.—Two Provincial Seed Fairs, one at Armstrong and the other at New Westminster, were conducted, while assistance was given to a number of local Seed Fairs. These Fairs are for the purpose of encouraging the planting of better seed, and to stimulate the home production of such seed.

Clover Huller.—To carry out the policy of encouraging the production of better seed, a clover huller was purchased and operated by the Department for educational purposes.

Drainage.—For the purpose of giving instruction in regard to the value of drainage, two ditching machines have been purchased and operated on experimental and demonstration work.

Field Crop Competitions.—Under the auspices of the Farmers' Institutes a number of competitions in the growing of staple field crops were conducted. In this work, however, most of the prize-money was provided from Provincial funds.

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Cow Testing Associations.—A small amount of money was used to give assistance to various cow-testing associations, which now are four in number.

Demonstration Stations.—Demonstration stations, varying in size from one to twenty acres, are located at Armstrong, Chilliwack, Rosehill, Edgewood, Grand Forks, Rock Creek, Courtenay, Errington, Pitt Meadows, Fort George, Aldermere, and North Neehaco. A number of these plots are used as seed production centres, in addition to demonstrating methods of cultivation and the growing of crops. The three plots located along the line of the Grand Trunk Pacific are proving very valuable in crop and variety tests.

Coast Markets Commissioner.—Office and travelling expenses in connection with the Coast Markets Commissioner's work, together with salary of Mr. R. C. Abbott, Commissioner, and his stenographer, were paid from the grant. This office is very largely devoted to the study of coast marketing conditions for British Columbia products, especially fruit, vegetable and poultry products. A weekly report is issued from the period June to December. There is an extensive correspondence with British Columbia producers in connection with the finding of markets for their products. Information is given on marketing conditions; and reports are made on the quality of the products.

In addition to these duties, Mr. Abbott has been Inspector in charge of Potato Exports and, in this connection, has inspected and issued certificates on potato shipments of the Province. In conjunction with the inspection work, he carried on actively a campaign to develop outside markets for potatoes and has done a very great deal to raise the standard of commercial shipments. Total expenditures for this work amounted, roughly, to \$2,700.

District Horticulturist in Grand Forks.—The salary and expenses of Mr. E. C. Hunt, representing the Horticultural Branch in the Boundary district, with headquarters at Grand Forks, were paid from the grant, and totalled \$1,706.03. The duties of this officer are very largely those of a district representative, except that he has official powers as an Inspector for the control of plant diseases and insect pests. Mr. Hunt has been largely engaged in the supervision of the control of Fire Blight; has conducted numerous Pruning Schools; has done a good deal of judging of horticultural exhibits at fairs; lecture work at Farmers' Institutes; has judged numerous crop competitions, and conducted general educational work for the advancement of fruit and vegetable growing.

Assistant Horticulturist, Prince Rupert.—The salary and expenses of Mr. A. R. Neal, Acting Assistant Horticulturist, Prince Rupert, were paid, totalling \$2,908.63. Mr. Neal's duties include the supervision of the Experimental Plots at Terrace, Lawn Hill and Bella Coola, lecturing at farmers' meetings, and farm-to-farm instruction visits. His work relates more particularly to field crops than to fruits and vegetables.

Pathological Laboratory, Vernon—

The work of this Laboratory has been continued, it being devoted to investigation and advisory work on plant diseases and pests for the interior districts. Mr. M. H. Ruhmann's salary and expenses, totalling \$1,400, have been paid from the grant. A great deal of Mr. Ruhmann's work and time is devoted to Codling Moth investigation work, in co-operation with the local staff of the Dominion Entomologist.

Terrace Experimental Plot—

The 5-acre Experimental Plot at Terrace, in the Similkameen district, has been continued for the year at an expense of, approximately, \$1,300. The variety tests of various cereals, fodder crops, vegetables and fruits, have been

continued. An extensive report has been submitted. The plot has done a great deal to demonstrate the relative merits of the different crops and the varieties of each for that district.

Lawn Hill Experimental Plot—

The Experimental Plot at Lawn Hill, on the Queen Charlotte Islands, has been carried on during the year at a total cost of \$735. The work is very similar to that at Terrace and is intended to serve the Queen Charlotte Islands. There are especial problems in this district in connection with muskeg lands, and the annual report on the Plot shows what is being done on a typical soil of the Islands.

Bella Coola Experimental Plot—

The Experimental Plot at Bella Coola has been operated during the year at a total expense of about \$861. This plot is very similar to the Terrace Plot in its general methods. There is evidence that this plot has done a good deal to influence the agriculture of the district.

Summerland Small-Fruit and Vegetable Experiment Station—

This Station at Summerland, with Mr. J. L. Hilborn in charge, has been continued, the cost for the year being \$1,000. An extensive report submitted to the Department showed in detail the results secured with the various tender vegetables and small fruits to which this station is devoted. As a result of this plot there has been a considerable development in fruit and vegetable growing in the district.

Various Experimental Plots—

A certain portion of the Telkwa Experimental Plot, operated under the direction of the Live Stock Branch, was planted out to fruit trees, the value of which for this district required testing. Similarly, on the Plot at Prince George, an experimental area was set aside for fruit trees of types likely to do well in the district.

Hatzic Strawberry Plot—

The work being carried on consists of testing varieties of strawberries on a commercial basis. Shipping tests were continued and valuable information was gained.

Agricultural Journal—

This journal is the official organ of the Department of Agriculture, and is educational in its object. The material is supplied by members of the Department's staff, officials of the Provincial University, Dominion officials and by prominent farmers. No advertising is carried on and the cost is provided by the grant.

AGRICULTURAL EDUCATION IN BRITISH COLUMBIA.

During 1916, two additional District Supervisors of School Agriculture were appointed, making three in all. The new appointees were J. E. Britton, B.S.A. for Upper Okanagan, and E. L. Small, B.S.A. for the lower Fraser. The Supervisors' duties include instruction in Agriculture in the high schools and in the high school extension classes, together with supervision of rural science work in the public schools tributary to high schools where Agriculture is being

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taught. Regular visits are made to the public schools, and the supervision thus given is leading to much better work in nature study and school gardening. Regular high school agricultural classes were conducted at the high schools at Chilliwack, Vernon, Armstrong, Murrayville and Cloverdale. The number of students was 120 in 1916. Great interest was shown in the work and encouraging progress was made.

Four high school extension classes were held in three districts during the winter months. Owing to the fact that the majority of the young men from these districts are on active service, the classes were thrown open to men generally. The average attendance was 36. The Supervisors provide their own motor cars, but receive a monthly allowance from the school board.

During the year, school gardening was carried on systematically in 145 schools and home gardening in 25 schools. The movement towards the improvement of school grounds, inaugurated two years ago, has made considerable progress, sixty school grounds have already been included under the scheme.

For reasons connected with the province's finances, the Summer School for Teachers, held in 1914 and 1915, was omitted in 1916.

Early in the year a general appeal was made to teachers and pupils of public and high schools to join in the Food Production campaign. The Director of Elementary Agricultural Education, Mr. J. W. Gibson, reports that the response was excellent and demonstrated the ability and enterprise as well as the unfailing loyalty of the boys and girls of the province. "To have done ever so little in this practical way to help the nation in the supreme hour of her trial will stand to the credit of all young Canadians in future years, and will remain to them and to their children's children a thing of blessed memory."

OFFICERS PROVIDED BY THE GRANT.

(A) Officers, regularly employed, whose salaries are paid wholly from the Agricultural Instruction grant.

J. W. Gibson, M.A., Director Elementary Agricultural Education, Victoria.
 J. C. Readey, B.S.A., District Supervisor Agricultural Education, Chilliwack.
 E. L. Small, B.S.A., District Supervisor Agricultural Instruction, Cloverdale.
 J. E. Britton, B.S.A., District Supervisor Agricultural Instruction, Armstrong.
 Abbott, R. C., Coast Markets Commissioner, Vancouver.
 Brookland, E., Caretaker, Dry Farming Station, Quilchena.
 Elliott, W., 105 Mile Dry Farming Station, 105 Mile, B.C.
 Fahrni, W., Mechanical Expert, Victoria.
 Ferris, J., Silo Operator, Victoria.
 Hay, Geo. C., B.S.A., District Agriculturist, Telkwa.
 Hunt, E. C., Assistant Horticulturist, Grand Forks.
 Lawson, F. M., Stenographer, for Coast Markets Commissioner, Vancouver.
 McLennan, Roy, Editor, Publications Branch, Victoria.
 Philips, E. L., Stenographer for Acct., Dept. of Agriculture, Victoria.
 Ruhman, M. H., Asst. Plant Pathologist, Vernon.
 Stroyan, W. H., Caretaker, Egglaying contest, Victoria.

(B) Officers, regularly employed, whose salaries are paid partly from the Agricultural Instruction grant.

Bekker, B., Caretaker, Errington Demonstration Plot, Errington.
 Clarke, N., Cow-tester, Chilliwack.
 Mansell, R. K., Cow-tester, Cloverdale.
 Thornberry, G. H., Cow-tester, Courtenay.
 Tucker, F. W., Cow-tester, New Westminster.

BRITISH COLUMBIA.

GRANT OF 1916-17.

SUMMARY STATEMENT, April 1, 1916, to March 31, 1917.

No.	Classification.	Balances April 1.	Grant.	Refunds.	Total Credits	Expenditure.	Cr. Balance.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1	Instructors, Inspectors, Directors, Superintendents and District Representatives.....	2,024 28	19,000 00	976 75	22,001 03	20,164 04	1,836 99
2	Farm demonstration and experimental work, field crop competitions, boys' and girls' clubs, crop and stock competitions, cow-testing associations, poultry stations and variety tests.....	3,786 23	16,000 00		19,786 23	12,461 69	7,324 54
3	Horticultural Demonstration Stations, Experimental work in vegetable growing and greenhouse work, pathological and entomological investigation, etc.....	1,934 36	7,000 00		8,934 36	3,950 61	4,983 75
4	Agricultural Journal, bulletins, etc.....	1,880 81	5,000 00		6,880 81	2,429 51	4,451 30
5	Department of Education, towards Agricultural Instruction in Public, High and Normal Schools.....		15,000 00		15,000 00	15,000 00	
6	Contingencies and Miscellaneous.....	0 42	1,732 50		1,732 92	808 09	924 83
		9,626 10	63,732 50	976 75	74,335 35	54,813 94	19,521 41

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BRITISH COLUMBIA.

1. INSTRUCTORS AND INSPECTORS.

	\$	cts.	\$	cts.
Balance April 1, 1917.....	2,024	28		
Grant, 1916-17.....	19,000	00		
Refund for cattle.....		976 75		
Expended March 31, 1917.....			20,164	04
Balance forward.....			1,836	99
	22,001	03	22,001	03

Salaries and Expenses—

E. C. Hunt, Assistant Horticulturist.....	1,699	78
R. C. Abbott, Coast Markets Commissioner.....	2,750	29
M. H. Ruhmann, Assistant Plant Pathologist.....	1,378	19
A. R. Neale, Assistant Horticulturist.....	2,505	89
J. H. McCulloch, District Agriculturist.....	2,504	05
W. E. Hogan, Soils and Crops.....	2,411	70
G. C. Hay, District Agriculturist.....	2,104	31
W. H. Stroyan, Caretaker, egg-laying contest.....	825	00
R. J. Ferris, Silo Operator.....	1,234	91
B. Bekker.....	360	00
H. C. Bunt.....	474	65
W. Gibson.....	164	45
Sundry persons.....	399	92
Incidentals.....	30	90
Cow-testers.....	1,320	00
		20,164 04

2. DEMONSTRATIONS AND EXPERIMENTAL PLOTS.

	\$	cts.	\$	cts.
Balance April 1, 1916.....	3,786	23		
Grant, 1916-17.....	16,000	00		
Expended Mar. 31, 1917.....			12,461	69
Balance forward.....			7,324	54
	19,786	23	19,786	23

Demonstration Plots.....		1,614 38
Demonstration Farm, rental.....	150 00	
Demonstration Farm, labour, etc.....	604 74	
		754 74
Wages, (pay sheets), October and November.....		274 52
Wages—miscellaneous service.....		275 90
2 pure bred heifers.....		218 44
Drainage, materials, etc.....		392 55
Silo Demonstrations.....		654 32
Poultry for stations.....		1,172 55
Egg-laying contest.....		1,100 23
Prizes for Egg-laying contest.....		370 00
Poultry Building repairs.....		39 90
Milk testing.....		285 63
Seed grain purchase.....		837 89
Incidentals.....		350 32
Freight, threshing machine.....		75 75
Equipment—		
Clover huller.....	1,738 55	
Grain separator.....	141 75	
Grader and ditcher.....	329 40	
Seed cleaner.....	17 62	
Miscellaneous equipment.....	15 00	
		2,242 32
Cost of Production bonuses.....		195 00
Crop competition Prizes.....		1,450 00
Seed Fairs—		
Prizes.....	462 00	
Grants (two).....	100 00	
Expenses.....	114 17	
		676 17

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SALARIES AND EXPENSES.		\$	cts.
S. F. Dunlop.....		160	51
B. Bekker.....		85	28
J. H. McCulloch, District Agriculturist.....		25	50
W. Gibson.....		359	05
R. H. Martin.....		1,010	37
S. Milne.....		300	00
H. C. Brant.....		18	65
J. E. Millington.....		42	00
G. C. Hay, District Agriculturist.....		300	67
W. Elliott.....		285	00
E. Brookland.....		285	00
		15,852	74

REFUND ACCOUNT.		\$	cts.
Eggs, Boys' and Girls' Clubs....		331	32
Eggs sold.....		991	20
		1,322	52
Sale of Crops from plots.....		314	98
Sale of Seed grain.....		175	45
Field competitions.....		1,500	00
Miscellaneous.....		78	00
		3,390	95
Net expenditure...		12,461	69

3. DEMONSTRATIONS IN HORTICULTURE.

	\$	cts.	\$	cts.
Balance, April 1, 1917.....	1,934	36		
Grant, 1916-17.....	7,000	00		
Expenditure, Mar. 31, 1917.....			3,950	61
Balance forward.....			4,983	75
	<hr/>	<hr/>		
	8,934	36	8,934	36
	<hr/>	<hr/>		
Salaries and wages.....	2,786	61		
Travelling expenses.....	306	74		
	<hr/>	<hr/>	3,093	35
Materials, supplies, rentals.....			578	60
Equipment.....			180	21
Trees for Experimental plots.....			125	23
			<hr/>	<hr/>
			3,977	39
Less sale of produce.....			26	78
			<hr/>	<hr/>
			3,950	61
			<hr/>	<hr/>

4. PRINTING AND PREPARING BULLETINS.

	\$	cts.	\$	cts.
Balance, April 1, 1917.....	1,880	81		
Grant, 1916-17.....	5,000	00		
Expended, Mar. 31, 1917.....			2,429	51
Balance forward.....			4,451	30
	<u>6,880</u>	<u>81</u>	<u>6,880</u>	<u>81</u>
Salaries and wages.....			1,001	66
Supplies, materials, etc.....			14	48
Printing.....			1,742	83
			<u>2,758</u>	<u>97</u>
Less subscriptions to Agricultural Journal.....			329	46
			<u>2,429</u>	<u>51</u>

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6. MISCELLANEOUS.

	\$	cts.	\$	cts.
Balance, April 1, 1917.....		0 42		
Grant 1916-17.....	1,732	50		
Expenditure, Mar. 31, 1917.....			808	09
Balance forward.....			924	83
	1,732	92	1,732	92
Salaries and wages.....			217	58
Travelling expenses.....			222	10
Prizes, Boys' and Girls' Poultry, Pig and Potato Competitions.....			253	00
Grant, Farmers' Institutes.....			25	50
Supplies and materials.....			115	70
			833	88
Refund, seed grain.....			25	79
			808	09

DEPARTMENT OF EDUCATION.

	\$	cts.
Agricultural Instruction in High Schools, with district supervision at five centres.....	5,163	13
Grants to Public-school teachers of Rural Science.....	3,408	00
Salary, travelling and office expenses of Director of Elementary Agricultural Education.....	4,319	84
Special school courses in fruit packing.....	869	18
Expenditures for seeds, etc. in connection with home gardens.....	239	85
Grants towards expenditures made by School Boards in operating school gardens.....	1,000	00
	15,000	00

COMPARATIVE STATEMENT of Expenditure of Provincial Funds for Agricultural Purposes for the Years 1913, 1914 and 1915 and Appropriations for 1916 and 1917.

Service.	1913 to March 31.	1914 to March 31.	1915 to March 31.	1916 to March 31.	1916-17 to March 31 (Esti- mated).	1917-18 to March 31 (Esti- mated).
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Salaries—Agricultural Branch, Dept. of Finance and Agriculture.....	37,851 78	53,755 12	67,288 62	62,919 70	73,496 00	65,752 00
Agricultural associations.....	88,823 65	67,311 11	41,041 45	16,709 33	30,000 00	20,000 00
Board of Horticulture.....	2,556 65	1,078 25	217 70	318 85	500 00	500 00
Grants of various associations.....	4,633 42	2,717 68	1,278 04		2,500 00	
“ “	250 00	250 00	250 00	1,757 85	250 00	
“ “	3,062 51	2,999 55	2,096 46	2,564 78	2,500 00	5,750 00
Department of Agriculture.....	30,160 87	19,340 31				
Grants to students; Compensation for Cattle; Services and expenses, outside; Miscellaneous, weed suppression.....		24,985 50	104,021 88	77,336 31	67,000 00	58,000 00
Panama Exposition.....				7,322 92		
Fruit Work—						
Fruit cooling and storage.....	871 01	2,992 51				
Fruit exhibitions.....	43,110 28	36,059 28				
Fruit packing schools.....	4,567 49	4,043 15	68,335 25	36,649 76	43,750 00	33,500 00
Inspection nursery stock.....	11,681 58	41,216 74				
Fruit growers' associations.....	4,211 42	6,251 66				
Demonstration orchards.....	18,071 23	2,242 13				
Farmers' institutes and importation of pure bred stock in 1913.....	58,577 05	17,575 75	5,704 60	18,108 45	20,000 00	15,000 00
Women's institutes.....	4,640 01		4,993 85		7,500 00	7,500 00
Poultry Association Grant.....	2,934 64	3,870 86	1,879 91	5,213 60	2,500 00	
Poultry shows.....	3,100 00	4,000 00	4,000 00			
Dry farming experimental plots.....						2,000 00
Totals.....	318,103 59	290,789 60	303,107 26	233,898 34	249,996 00	208,002 00

NOVA SCOTIA.

AGREEMENT 1916-17.

	\$	cts.	\$	cts.
1. Agricultural College and Agricultural Schools:—				
(a) Capital expenditure to pay interest and sinking fund for cost of construction of and furnishing for Science Building.....	7,500	00		
(b) Salaries and maintenance.....	23,000	00		
			30,500	00
2. Instructors, Directors, Superintendents and District representatives—salaries and expenses.....			7,500	00
3. Instruction and Demonstration:—				
Dairying.....	3,500	00		
Poultry.....	1,600	00		
Beekeeping.....	800	00		
Soils (including drainage and field crops).....	3,000	00		
Horticultural and entomological instruction and investigation.....	8,000	00		
Fruit growing.....	1,000	00		
Short courses.....	3,000	00	20,900	00
4. Women's work (Women's Institutes, Homemakers' Clubs, Domestic Science, etc.).....			3,000	00
5. Bulletins, reports, circulars and miscellaneous printing.....			800	00
6. Instruction in Public and High Schools and in Normal Schools in Agriculture. Nature Study, Training of Teachers and School Gardens.....			11,000	00
7. Contingencies and miscellaneous.....			1,159	28
Total.....			74,859	28

DISTRICT REPRESENTATIVES.

In six out of eighteen counties, District Representatives have been employed for part or all of the year, and to some extent the work has been carried into a few other counties. The Demonstration work performed by them included the operation of the clover huller purchased in 1915. This machine threshed 14,000 lb. of clover during 1916. Two years previous, no clover seed was being produced in the province. Four grain separators were purchased and sent to parts of the province where farmers did not own separators and had not access to them. These machines enabled the District Representatives to complete the instruction given in seed selection. In the Cape Breton counties a further effort was made to encourage the growing of turnips on account of the importance of the crop in relation to the feeding of live stock in that section. Other forms of work included demonstrations with improved seed—potato, oat, wheat and turnip—demonstrations with fertilizers, lime and marl, and demonstrations in the use of spraying machinery and in the dipping of sheep.

POULTRY HUSBANDRY.

Poultry meetings were held in many parts of the province. A successful demonstration was given in the preservation of eggs in silicate of soda on a large scale to encourage groups of farmers to co-operate in such an undertaking. The policy inaugurated three years ago of helping farmers to erect and conduct improved poultry houses was continued and two additional houses were built. A poultry convention was held at Truro, and a model poultry plant demonstrated at Sydney Exhibition. Some 400 settings of eggs were distributed to school children in connection with school fair work.

BEE-KEEPING.

A provincial Apiarist was appointed to give instruction and promote the industry generally. Part of his time is devoted to Entomological work.

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SOIL SURVEY AND DRAINAGE.

An assistant in soil physics was appointed in connection with the general soil survey now being made. Already valuable information has been secured which will form the basis for future recommendations as to methods of soil cultivation and fertilization. All the men connected with the work having enlisted, practically no drainage work was carried out.

ENTOMOLOGICAL WORK.

Two orchards badly infected with the "green apple bug," a newly discovered insect pest, were taken over for demonstration. Hundreds of farmers inspected the work. Similar work was done with the "apple maggot." Bulletins were issued relating to these insects.

SHORT COURSES.

All the expenses of the Short Courses held at Bridgewater, Lawrencetown, Yarmouth and Musquodoboit were paid by the grant. A short course was provided at the Agricultural College for farmers living in the outlying counties and each person attending was allowed \$10.00 to assist in meeting expenses.

WOMEN'S INSTITUTES.

Five Institutes were organized during the year, bringing the total up to 49. A two weeks' Short Course for women was held at the Agricultural College, and a one week's course at Lawrencetown. An annual convention is also held at the College. An attractive exhibit in which every phase of the work was presented, including "old time" industries, was made at the provincial exhibition.

SCHOOL AGRICULTURE.

As a result of the gardening propaganda, home gardening in particular has been very much extended. It is planned to use the school children in a campaign for greater production and to increase the quantity of seed distributed. One hundred and ninety-five teachers attended the Rural Science School, Truro.

OFFICERS RECEIVING REMUNERATION FROM THE FEDERAL GRANT.

(a) *Persons, regularly employed, whose salaries are paid wholly from the Agricultural Instruction Grant.*

County Representative,	H. McPherson,	Antigonish County.
"	"	H. S. Cunninham, Cape Breton Counties.
"	"	H. B. Langille, Cape Breton and Richmond County.
"	"	T. C. Munn, Inverness County.
"	"	A. B. MacDonald, Guysboro County.
"	"	Father J. E. Robitaille, Isle Madam, Richmond Co.
Entomological Field Work Superintendent,	H. G. Payne,	Department of Agriculture, Truro.
Assistant Provincial Entomologist,	C. A. Good,	Truro (now Captain in Expeditionary Force and not on salary).
Soil Analyst,	J. G. Archibald,	Department of Agriculture, Truro.
Women's Institute Superintendent,	Miss Jennie A. Fraser,	New Glasgow.
Director Rural Science Education,	L. A. DeWolfe,	Truro.
Dean Rural Science School,	C. L. Moore,	Halifax.
Fruit and Vegetable Growing Instructor,	W. N. Byers,	Truro.
"	"	"
		F. B. Kinsman, Truro.

(b) Persons receiving part salary from Federal grant.

Dairy Superintendent, W. A. MacKay, Department of Agriculture, Truro.
 Stenographer to Dairy Superintendent, Truro.

Accountant, C. R. B. Bryan, Truro.

Professor of Agriculture, J. M. Trueman, Agricultural College, Truro.

Professor of Horticulture, P. J. Shaw, Agricultural College, Truro.

“ Zoology, W. H. Brittain, Agricultural College, Truro.

“ Botany, H. W. Smith, Agricultural College, Truro.

“ Chemistry, L. C. Harlow, Agricultural College, Truro.

“ “ J. M. Scott, Normal College, Truro.

“ Physics, J. A. Benoit, Normal College, Truro.

“ Manual Training, F. G. Mathews, Normal College, Truro.

Principal Truro Academy, E. C. Allen.

(The above nine persons give special instruction at the Summer Rural Science school).

Entomological Inspector, J. P. Spittal, Department of Agriculture, Truro.

“ “ W. W. Whitehead, Department of Agriculture, Truro

“ “ L. G. Saunders, Truro.

“ “ C. F. U. Whitman, Department of Agriculture,
 Truro.

“ “ W. Delong, Truro, Department of Agriculture.

NOVA SCOTIA.

GRANT OF 1916-17.

SUMMARY STATEMENT, April 1, 1916, to March 31, 1917.

No.	Classification.	Grant.	Balances, April 1, 1916.	Total Credits.	Expendi- ture.	Credit Balance.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1	Agricultural Colleges and Schools, \$30,500.00—					
	(a) Capital expenditure.....	7,500 00	3,673 01	11,173 01	8,678 74	2,494 27
	(b) Salaries and maintenance.....	23,000 00		23,000 00	22,868 93	131 07
2	Instructors, Directors, etc.....	7,500 00	20 12	7,520 12	6,653 61	866 51
3	Instruction and Demonstration, \$20,900.00—					
	(a) Dairying.....	3,500 00	0 59	3,500 59	3,040 10	460 49
	(b) Poultry.....	1,600 00	66 50	1,666 50	1,262 13	404 37
	(c) Bee-keeping.....	800 00	26 87	826 87	777 49	49 38
	(d) Soils (drainage and field crops)...	3,000 00	6 70	3,006 70	2,428 67	578 03
	(e) Horticultural and Entomological Investigation.....	8,000 00		8,000 00	7,998 66	1 34
	(f) Fruit-growing.....	1,000 00	225 75	1,225 75	1,225 57	0 18
	(g) Short courses.....	3,000 00	56 04	3,056 04	2,795 49	260 55
4	Women's work.....	3,000 00	1,350 41	4,350 41	3,513 36	837 05
5	Bulletins and miscellaneous printing....	800 00	0 28	800 28	800 28	
6	Agricultural Instruction in School.....	11,000 00	972 41	11,972 41	9,634 42	2,337 99
7	Contingencies and miscellaneous.....	1,159 28	8 72	1,168 00	965 53	202 47
		74,859 28	6,407 40	81,266 68	72,642 98	8,623 60

1. AGRICULTURAL COLLEGES AND SCHOOLS.

(a) INTEREST AND SINKING FUND, SCIENCE BUILDING.

	\$ cts.	\$ cts.
Grant, 1916-17.....	7,500 00	
Balance, April 1, 1916.....	3,673 01	
Expended, Mar. 31, 1917.....		8,678 74
Balance forward.....		2,494 27
	11,173 01	11,173 01
Eastern Trust Company, interest.....	6,680 26	
Payment on loan.....	1,998 48	
	\$8,678 74	

(b) SALARIES AND MAINTENANCE.

Grant, 1916-17.....	\$23,000 00	
Expended, Mar. 31, 1917.....		\$22,868 93
Balance forward.....		131 07
	\$23,000 00	\$23,000 00

The Agricultural College expenditure is not presented in detail. The grant was expended for additional men and services at the college. The public accounts of the province show that \$23,000.00 more was expended on the college and farm for 1915-16 than for 1912-13.

2. DISTRICT REPRESENTATIVES.

	\$	cts.	\$	cts.
Grant, 1916-17.....	7,500	00		
Balance, April, 1916.....		20 12		
Expended, March 31, 1917.....			6,653	61
Balance forward.....			866	51
	7,520	12	7,520	12

SALARIES AND EXPENSES.

	Salary.	Expense.
H. S. Cunninham, Cape Breton.....	450 00	531 97
H. B. Langille, Assistant, Cape Breton.....	471 15	642 85
T. C. Munn, Assistant, Cape Breton.....	225 00	372 80
H. McPherson, Antigonish.....	1,083 33	217 90
A. B. McDonald, Guysboro.....	326 92	704 31
Rev. J. E. Robitaille, Richmond.....	230 00	353 10
	2,786 40	2,822 93
		2,786 40
		5,609 33

EQUIPMENT.

Grain separators, spraying machines, bicycle, etc.....	207 15
Supplies and repairs.....	752 34
Incidentals.....	38 39
Prizes.....	46 40
	\$6,653 61

3. INSTRUCTION AND DEMONSTRATION.

(a) DAIRYING.

	\$	cts.	\$	cts.
Grant, 1916-17.....	3,500	00		
Balance, April 1, 1916.....		0 59		
Expended, Mar. 31, 1917.....			3,040	10
Balance forward.....			460	49
	3,500	59	3,500	59

W. A. McKay, salary (one-half).....	666 66
“ expenses.....	841 27
Assistants, services and expenses.....	1,097 27
Advertising and printing.....	49 75
Supplies and incidentals.....	176 45
Expenses, delegates Dairy Convention.....	58 70
Dairy competition, awards.....	150 00
	\$3,040 10

Assistants were engaged in extending co-operative dairying, either addressing a series of meetings or attending dairy conventions.

4. WOMEN'S INSTITUTES.

	\$	cts.	\$	cts.
Grant, 1916-17.....	3,000	00		
Balance, April 1, 1916.....	1,350	41		
Expended.....			3,513	36
Balance.....			837	05
	\$4,350	41	\$4,350	41

Miss Jennie A. Fraser, salary \$683.35, expenses \$367.86.....	1,051 20
Assistants and lecturers, services and expenses.....	1,313 38
Printing and advertising.....	339 80
Supplies and incidentals.....	69 51
Equipment.....	104 47
Badge pins (to be refunded).....	270 00
Grants (45).....	245 00
Instructors' board.....	120 00
	\$3,513 36

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5.—BULLETINS AND PRINTING.

	\$	cts.	\$	cts.
Grant, 1916-17.....	800	00		
Balance, April 1, 1916.....		0	28	
Expended, March 31, 1917.....			800	28
	800	28	800	28
Fruit Growers Association reports.....			300	00
Entomological Society Reports.....			372	95
Dairy Bulletin.....			20	00
Leaflets.....			49	75
Incidentals.....			57	58
			800	28

6.—RURAL SCIENCE SCHOOLS.

	\$	cts.	\$	cts.
Grant, 1916-17.....	11,000	00		
Balance, April 1, 1916.....		972	41	
Expended, March 31, 1917.....			9,634	42
Balance forward.....			2,337	99
	11,972	41	11,972	41
L. A. DeWolfe, Director Rural Science—				
Salary.....	2,166	69		
Expenses.....		329	83	
			2,496	52
C. L. Moore, Principal Rural Science School, salary.....			1,000	00
Dora M. Baker, stenographer, salary.....			405	00
Eight instructors.....			820	00
			4,721	52
Schools for seed plants, eggs and exhibition prizes.....			605	03
Equipment.....			318	41
Books and Stationery.....			257	27
Printing.....			80	85
Teacher grants.....			2,237	50
Students' bonuses.....			710	00
Students' travelling expenses.....			461	80
Miscellaneous.....			242	04
			9,634	42

(b) POULTRY.

Grant, 1916-17.....	1,600	00		
Balance, April 1, 1916.....		66	50	
Expended, March 31, 1917.....			1,262	13
Balance forward.....			404	37
	1,666	50	1,666	50
J. P. Landry, Superintendent, expenses.....			657	18
Material demonstration house, equipment.....			281	60
Eggs supplied to schools.....			190	83
Supplies and incidentals.....			84	09
Poultry Convention expenses.....			48	43
			1,262	13

(c) BEE-KEEPING.

Grant, 1916-17.....	800	00		
Balance, April 1, 1916.....		26	87	
Expended, March 31, 1917.....			777	49
Balance forward.....			49	38
	826	87	826	87
C. B. Gooderham: salary, \$529.88; expenses, \$202.84.....			732	72
Equipment.....			34	27
Printing and advertising.....			10	50
			777	49

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(d) SOIL, DRAINAGE, FIELD CROPS.

	\$ cts.	\$ cts.
Grant, 1916-17.....	3,000 00	
Balance, April 1, 1916.....	6 70	
Expended, March 31, 1917.....		2,428 67
Balance forward.....		578 03
	3,006 70	3,006 70
L. C. Harlow, chemist, services, \$100; expenses, \$96.54.....		196 54
J. G. Archibald, assistant: salary, \$833.30; expenses, \$6.50.....		839 80
Sundry persons, services and expenses.....		502 51
		1,538 85
Equipment.....		52 50
Supplies and incidentals.....		737 32
Halifax Agricultural Society, Ragwort Campaign.....		100 00
		2,428 67

Demonstrations in the use of ground limestone have been conducted in various parts of the province. Chemists devoted their time to soil survey work. The item for services and expenses includes judges of Field Crop Competitions.

(e) HORTICULTURAL AND ENTOMOLOGICAL INVESTIGATION.

	\$ cts.	\$ cts.
Grant, 1916-17.....	8,000 00	
Expended, March 31, 1917.....		7,998 66
Balance forward.....		1 34
	8,000 00	8,000 00
W. H. Brittain, entomologist, expenses.....		564 14
C. A. Good, assistant: salary, \$365; expenses, \$31.45.....		396 45
C. B. Gooderham, assistant, salary.....		166 66
H. G. Payne, chief inspector: salary, \$1,166.62; expenses, \$592.70.....		1,759 32
Salaries and expenses, eleven inspectors.....		4,068 37
		6,954 94
Rent of Field Laboratories in fruit counties.....		60 00
Equipment, motor-cycle.....		338 60
Supplies for spraying demonstrations and incidentals.....		645 12
		7,998 66

(f) FRUIT GROWING.

	\$ cts.	\$ cts.
Grant, 1916-17.....	1,000 00	
Balances, April 1, 1916.....	225 75	
Expended, March 31, 1917.....		1,225 57
Balance forward.....		0 18
	1,225 75	1,225 75

Salary and Expenses—

P. J. Shaw, expense.....	47 44
F. B. Kinsman: expenses, \$321.48; salary, \$208.35.....	529 83
Wm. Byers, expenses, \$270.22; salary, \$165.38.....	435 60
	1,012 87
Supplies and incidentals.....	212 70
	1,225 57

(g) SHORT COURSES.

	\$ cts.	\$ cts.
Grant, 1916-17.....	3,000 00	
Balance, April, 1916.....	56 04	
Expended, March 31, 1917.....		2,795 49
Balance forward.....		260 55
	3,056 04	3,056 04

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(g) SHORT COURSES—Concluded.

\$ cts.

J. A. Sinclair, V.S.: services, \$200; expenses, \$34.45.....	234 45
L. H. Trueman: services, \$65; expenses, \$92.02.....	157 02
Printing and advertising.....	59 75
Supplies and incidentals.....	165 27
Delegates expenses.....	539 00
	<hr/>
	1,155 49

Demonstration Buildings—

Grant Bridgewater Building.....	800 00
Repairs Antigonish Building.....	240 00
Grant Lawrencetown Building.....	600 00
	<hr/>
	2,795 49

7.—CONTINGENCIES.

	\$ cts.	\$ cts.
Grant, 1916-17.....	1,159 28	
Balance, April 1, 1916.....	8 72	
Expended, March 31, 1917.....		965 53
Balance forward.....		202 47
	<hr/>	<hr/>
	1,168 00	1,168 00

W. M. Blair, services.....	240 00
C. R. B. Bryan, services as accountant.....	300 00
Postage.....	80 00
Picton County Survey.....	100 00
Electro-types.....	234 43
Incidentals.....	11 10
	<hr/>
	965 53

COMPARATIVE STATEMENT of Expenditure of Provincial Funds for Agricultural purposes for the Years 1913, 1914, 1915, 1916, and estimated for 1917.

Service.	1913 to Sept. 30.	1914 to Sept. 30.	1915 to Sept. 30.	1916 to Sept. 30.	1917 to Sept. 30,— Appropriations.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>General Agriculture—</i>					
Department salaries and expenses.....	7,672 08	5,449 77	14,415 64	14,747 58	
Assistance in dairying.....	926 16	1,257 34	1,849 69	1,783 87	
Entomological inspection.....	3,582 27	2,744 15	2,938 06	3,910 31	
Drainage.....	1,534 01	903 19	400 93	12 39	
Exhibitions.....	12,457 84	18,222 13	10,484 08	5,540 17	
Field crop competitions.....	870 18	939 18	936 07	1,022 71	
Live stock improvement.....	898 57				
Meetings.....	621 84	69 77	406 50	89 40	36,000 00
Model orchards.....	983 31	832 15	596 45	500 01	
Printing and advertising.....	134 35	306 81	212 60	490 92	
Miscellaneous.....	397 06	228 20	448 45	616 58	
Fruit growers and county associations...	1,032 75	1,150 00	1,200 00	1,450 00	
Stallion enrolment.....	84 75	518 91	142 23	240 95	
Assistance to poultry.....	100 35	565 13	423 20	632 65	
Advertising fruit in Great Britain.....				781 95	
Agricultural college.....	19,607 25	22,000 00	18,300 00	19,000 00	19,000 00
College farm.....	14,317 41	14,000 00	14,700 00	15,000 00	15,000 00
Agricultural societies.....	13,282 32	15,787 05	14,710 76	14,490 00	15,000 00
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
Total.....	78,502 50	84,973 78	82,164 66	84,309 95	85,000 00
Revenue.....	9,498 41	6,677 26	10,018 82	9,539 75	1,000 00
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	69,004 09	78,296 52	72,145 84	74,770 20	84,000 00

NEW BRUNSWICK

AGREEMENT—1916-17.

	\$	cts.	\$	cts.
1. Agricultural Schools—				
(a) Capital expenditure.....	17,000	00		
(b) Salaries and maintenance.....	4,000	00	21,000	00
2. Instructors, directors, superintendents and district representatives—salaries and expenses.....			13,500	00
3. Instruction and Demonstration—				
(a) Bee-keeping.....	500	00		
(b) Soils and drainage.....	4,000	00		
(c) Horticulture.....	1,500	00		
(d) Short courses.....	1,500	00	7,500	00
4. Women's work.....			3,500	00
5. Bulletins, reports, circulars and miscellaneous printing.....			500	00
6. Instruction in Public, High and Normal Schools in Agriculture, Nature Study and Domestic Science, Training of Teachers and School Gardens...			12,000	00
7. Contingencies and miscellaneous.....			1,209	60
Total.....			59,209	60

DEMONSTRATION WORK.

Practical demonstrations were carried on during the year in soil drainage, cultivation, and crop production, limestone pulverizing, the home-mixing of commercial fertilizers and the operation of a clover huller. The traction ditcher operated chiefly in the counties of Carleton and Kings, digging 1,626 rods of ditch. The limestone pulverizer operated in Charlotte and Carleton counties. Instruction in the mixing and application of fertilizers was given at a number of agricultural society gatherings, and also formed a part of the short course programme at Sussex, Woodstock, and Bathurst. The clover huller, purchased and operated, did much towards demonstrating the value to farmers of red clover and the production of seed. In addition to the short courses already mentioned, a four-day general course was given at the Dairy School at Ste. Hilaire. Standing crop competitions were conducted in ten counties. Seven seed fairs were held, including Provincial Seed Exhibition at Fredericton and six county fairs.

HORTICULTURE.

The work of the Horticultural Division includes the supervision of demonstration orchards, instruction in pruning, spraying, etc., and the holding of short courses. As in previous years, the examining of orchards and orchard sites and the giving of instruction to operators in orchard management constituted a large portion of the work.

A course in apple-packing, lasting for four days, was held in February at Fredericton. Fifty students attended. Lectures were given on insect and fungous enemies and their control, and many growers were convinced of the necessity for using power spraying outfits.

WOMEN'S INSTITUTES.

At the present time there are 92 Women's Institutes in the province. During the winter months two ten-day courses in home economics were held at each of the Agricultural Schools. One hundred and fifty-six registered for the four courses.

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Twenty-two institutes made creditable displays of canned and preserved fruits and vegetables at the New Brunswick Apple Exhibition held in St. John. This year a tour will be made of the province, giving demonstrations in canning and lectures on food economics. An institute convention is held annually. The entire outlay for Women's Institute work, including an annual grant of five dollars to each institute qualifying, is met by the grant.

ELEMENTARY AGRICULTURE.

The Director of Elementary Agricultural Education reports an increase of over one thousand in the number of pupils receiving instruction in elementary agriculture during the year. The number of home plots was nearly doubled, being 727 as against 378 in the year previous. Other home project work was also undertaken, chiefly in connection with poultry, a subject that lends itself to general adoption by pupils of both sexes. The number of eggs distributed was large. Twelve school fairs were held in the autumn of 1916, with encouraging results.

Summer schools of rural science for teachers were again held at Sussex and Woodstock, with an enrolment of 81 at the former place and 42 at the latter. A teachers' winter course was held in January at the same points, with an attendance of 63 at Woodstock and 58 at Sussex.

The publication of the "Rural Education Monthly" was begun by the Division in June, to be a medium of communication between teachers and the department, and to educate public opinion as to the importance of the school in the satisfactory solution of rural problems.

OFFICERS PROVIDED BY DOMINION GRANT.

Horticulturist, A. G. Turney, B.S.A., Fredericton.
 Dairy Superintendent, C. W. McDougall, Sussex.
 Poultry Superintendent, Seth Jones, Sussex.
 Entomologist, William McIntosh, St. John.
 Director Elementary Agricultural Education, R. P. Steeves, M.A., Sussex.
 Assistant Director Elementary Agricultural Education, F. A. Dixon, Sussex.
 Superintendent Agricultural Societies, M.A. McLeod.
 Livestock Instructor, Thomas Hetherington, B.S.A.
 Instructor in Soils and Crops, O. C. Hicks, B.S.A.
 Instructor in Drainage, John Woods.
 Assistant in Livestock, William Kerr.
 Supervisor of Women's Institutes, Hazel E. Winter, Fredericton.
 Instructor in Household Science, Ada B. Saunders, Fredericton.
 District Representative, A. C. Belliveau, Richibucto, (Kent County).
 District Representative, E. M. Taylor, Gagetown, (Sunbury and Queens Counties).

NEW BRUNSWICK.

GRANT OF 1916-17.

SUMMARY STATEMENT, April 1, 1916 to March 31, 1917.

	Balances April 1, 1916.	Grant.	Total Credits.	Expenditure.	Cr. Balance.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1. Agricultural Schools—					
(a) Capital		17,000 00	21,000 00	18,635 51	2,364 49
(b) Salaries and maintenance.....		4,000 00			
2. Instructors, directors, etc.....	1,347 66	13,500 00	14,847 66	14,847 66	
3. Instruction and Demonstration—					
\$ cts.					
(a) Bee-keeping.....	500 00				
(b) Soils and drainage.....	4,000 00				
(c) Horticulture.....	1,500 00				
(d) Short courses.....	1,500 00	7,500 00	7,500 00	7,500 00	
4. Women's institutes.....	593 86	3,500 00	4,093 86	3,810 91	282 95
5. Bulletins and printing.....	159 32	500 00	659 32	659 32	
6. Agricultural instruction in schools.....	1,154 26	12,000 00	13,154 26	11,406 06	1,748 20
7. Contingencies and miscellaneous.....	1,218 68	1,209 60	2,428 28	2,002 40	425 88
	4,473 78	59,209 60	63,683 38	58,861 86	4,821 52

1. AGRICULTURAL SCHOOLS.

	\$ cts.	\$ cts.
Grant, 1916-17—		
Capital.....	17,000 00	
Salaries and maintenance.....	4,000 00	
Balance April 1, 1916.....		15,234 79
Expended to Mar. 31, 1917:		
Capital.....		971 62
Salaries and maintenance.....		2,429 10
Balance forward.....		2,364 49
	21,000 00	21,000 00
Capital—		
Equipment.....		124 92
Pasteurizer.....		807 50
Buildings account.....		39 20
		971 62
Salaries and maintenance—		
Salaries, janitors, Sussex and Woodstock.....		1,000 00
Insurance, Woodstock.....		435 00
Maintenance and supplies, Sussex and Woodstock.....		994 10
		2,429 10

2. INSTRUCTORS, DIRECTORS, Etc.

	\$ cts.	\$ cts.
Grant, 1916-17.....	13,500 00	
Balance, April 1, 1916.....	1,347 66	
Expended, March 31, 1917.....		14,847 66
	14,847 66	14,847 66

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2. INSTRUCTORS' DIRECTORS, ETC.—Concluded.

	Salaries.	Expenses.
	\$ cts.	\$ cts.
A. G. Turney, Horticulturist.....	1,800 00	408 41
C. W. McDougall, Dairy Superintendent.....	1,500 00	626 41
N. W. Eveleigh.....	1,400 00	602 70
Seth Jones, Poultry Supt.....	1,200 00	375 66
H. B. Durost, Fertilizers and Bee-keeping.....	1,241 66	558 50
J. E. DeGrace, Supt. Agricultural Societies.....	1,120 84	773 19
Wm. McIntosh, Entomologist.....	600 00	92 20
O. C. Hicks, Instructor, Soils and crops.....	699 16	426 55
J. W. Mitchell, Supt. Live Stock and Dairying.....	1,166 66	476 62
R. P. Gorham, Assist. Horticulturist.....		21 45
Incidentals.....		11 22
	10,728 32	4,372 91
Total.....		15,101 23
Less amount transferred to (5) Bulletins and Printing.....		253 57
		14,847 66

3. INSTRUCTION AND DEMONSTRATION.

	\$ cts.	\$ cts.
Grant 1916 17.....	7,500 00	
Balance April 1, 1916.....		629 69
Expended, March 31, 1917.....		6,870 31
	7,500 00	7,500 00

(a) BEE-KEEPING.

Supplies and Incidentals.....	31 11
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(b) SOILS AND DRAINAGE.

Equipment..		
Clover Huller and Power.....		1,350 00
Services and Expenses:	\$ cts.	
D. H. Cronkhite, foreman, limestone pulverizer.....	898 38	
J. Woods foreman ditcher.....	559 21	
W. B. Dickinson, foreman huller.....	106 21	
Engineers (two).....	524 41	
Jas. Brenner, surveyor.....	150 50	
	2,238 71	
Supplies, repairs, transport and incidentals.....	1,994 54	
	5,583 25	
Less Refunds.....	1,157 81	
		4,425 44

(c) HORTICULTURE.

4 demonstrators, services and expenses.....	1,949 32	
Students railway fares to apple-packing school.....	62 25	
		2,011 57

(d) SHORT COURSE WORK.

Services and expenses sundry persons.....	243 95	
Advertising, printing, postage.....	617 06	
Supplies and incidentals.....	156 55	
		1,017 56
Total.....		7,485 68
Less amount transferred to		
(5) Bulletins and Printing.....	337 75	
Less amount transferred to		
(7) Miscellaneous.....	277 62	
		615 37
		6,870 31

4. WOMEN'S INSTITUTES.

	\$	cts.	\$	cts.
Grant, 1916-17.....	3,500	00		
Balance April 1, 1916.....	593	86		
Expended, Mar. 31, 1917.....			3,810	91
Carried forward.....			282	95
	4,093	86	4,093	86
Supervisor and Assistant Lecturers, etc., salaries and expenses.....			2,256	46
Printing and advertising, hand books, programmes, etc.....			329	68
Books and periodicals.....			196	53
Supplies and incidentals.....			422	23
Short Course and Convention prizes.....			95	00
Railway fares, allowance for.....			93	60
Grants to 74 Institutes.....			380	00
W. I. Pins.....			96	60
			3,870	10
Refunds.....			59	19
			3,810	91

5. BULLETIN AND PRINTING.

	\$	cts.	\$	cts.
Grant, 1916-17.....	500	00		
Balance, April 1, 1916.....	159	32		
Expended, March 31, 1917.....			659	32
	659	32	659	32
Lime Bulletin.....			56	00
Fertilizer leaflet.....			12	00
			68	00
To transfer from (2) Instructors, Directors, etc.....			253	57
To transfer from (3) Instructions and Demonstration.....			337	75
			659	32

6. INSTRUCTION IN PUBLIC, HIGH AND NORMAL SCHOOLS, ETC.

	\$	cts.	\$	cts.
Grant, 1916-17.....	12,000	00		
Balance, April 1, 1916.....	1,154	26		
Expended, March 31, 1917.....			11,406	06
Balance forward.....			1,748	20
	13,154	26	13,154	26
Salaries and Expenses—				
R. P. Steeves, Director.....	2,399	03		
A. M. McDermot, Assistant.....	531	30		
Victor B. Robinson, Assistant.....	1,115	93		
Instructors and others.....	1,287	65		
			5,333	91
Railway fares and bonuses to teachers, Short Course and Rural Science School..	1,060	20		
Grants for school gardens.....	4,279	18		
Prizes, school fairs.....	52	90		
Equipment.....	86	80		
Printing Rural Monthly, etc.....	115	97		
Supplies and incidentals.....	638	79		
			11,567	75
Less refunds.....			161	69
			11,406	06

7. MISCELLANEOUS.

	\$	cts.	\$	cts.
Grant, 1916-17.....	1,209	60		
Balance, April 1, 1916.....	1,218	68		
Expended, Mar. 31, 1917.....			2,002	40
Balance forward.....			425	88
	2,428	28	2,428	28
Salaries, Stenographers.....	899	50		
Equipment.....	428	19		
Refunded railway fares to Agricultural Students.....	337	65		
Incidentals.....	59	44		
			1,724	78
To amount transferred from (3) Instruction and Demonstration.....			277	62
			2,002	40

COMPARATIVE STATEMENT of Expenditure of Provincial Funds for Agricultural Purposes for the Years 1913, 1914, 1915 and 1916 and Appropriations for 1917.

Service.	1913 to October 31.	1914 to October 31.	1915 to October 31.	1916 to October 31.	1917 to October 31 Appropriations.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Salaries and Expenses, Department.....	6,499 68	7,019 06	7,945 44	9,914 76	9,558 00
Agricultural Societies.....	16,867 66	17,444 83	17,000 00	17,000 00	18,000 00
Dairying.....	4,092 28	3,039 53	6,477 85	5,830 96	7,200 00
Live Stock Industries.....	950 45	3,611 78			
Dairy School.....	537 03	4,067 99			
Farmers' Institute.....	1,048 96		738 05	285 42	600 00
Horticulture.....	4,155 67	1,999 37	1,997 26	1,499 32	2,500 00
Cold Storage.....	750 00				
Poultry Raising.....	1,984 94	980 08	1,245 57	1,417 52	2,000 00
Crop Competitions, Seed Fairs.....	1,809 44	2,082 77	3,398 16	4,878 71	4,400 00
Miscellaneous.....	309 59	355 00	1,944 11	1,389 81	2,125 00
Brown Tail Moth, etc.....	999 51	4,481 93	3,754 45	3,370 79	2,912 00
Bonus Mud Dredges.....		1,000 00	519 90		500 00
Bonus Clover Hullers.....			600 00		
Limestone crusher and power.....			1,895 00	275 40	500 00
Bonus to Wheat Mills.....				2,500 00	3,000 00
Total.....	40,005 21	46,082 34	47,515 79	48,362 69	53,295 00

PRINCE EDWARD ISLAND

AGREEMENT, 1916-17.

	\$	cts.
1. Capital Account.....	500	00
2. Director of Agricultural Instruction and Instructors—Salaries and expenses.....	10,300	00
3. Instruction and Demonstration (including Short Courses)—Live Stock, Poultry, Beekeeping, Horticulture, Fruit-growing and Soils.....	3,000	00
4. Women's Work (Women's Institutes).....	3,200	00
5. Agricultural Instruction in Public and High Schools.....	12,000	00
6. Office assistance.....	1,200	00
7. Miscellaneous and contingencies.....	243	75
Total.....	30,443	75

DAIRYING.

Early in the year steps were taken to bring about an improvement in the dairy industry. A provincial conference of butter and cheese makers was held. The recommendation of this conference for the appointment of an instructor to work among factories was acceded to. A graduate of the Guelph Dairy School was also employed to instruct patrons in the handling and care of milk. Following the recommendation of the conference, a Dairy School was provided at Truro College, Nova Scotia, by the co-operation of the departments of agriculture of the three Maritime Provinces. A number of makers from the island availed themselves of the courses.

To promote the introduction of oats, peas and vetches as a substitute ensilage crop for corn, a demonstration field of six acres was grown, and the crop ensiled and fed with satisfactory results.

DRAINAGE.

Open-ditch work was undertaken in one section to serve as a model for other districts contemplating such work. Drainage surveys were made for upwards of twenty farmers throughout the province. The manufacture of tile is now being conducted on the island as a result of the efforts of those in charge of drainage demonstrations.

WOOL AND LAMB MARKETING.

In co-operation with the Dominion Department of Agriculture, two grading centres for wool were established, and a second co-operative wool sale was held. Thirteen organizations of farmers sold their lambs by tender.

Continuing the plan adopted in 1915, a second carload of pure bred rams was purchased and resold to the farmers at cost. An increase of 12¼ lbs. in the average weight of lambs has resulted from the first purchase.

SHORT COURSES.

During the winter months, a series of short courses similar to those of last year was conducted. The courses were of one week's duration, and were held at points not visited previously. Eighty-one meetings were held at nine points, with an average attendance of 66.

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WOMEN'S INSTITUTES:

There are at present 43 Women's Institutes in the province. Further organization work has been suspended on account of the war. The usual series of lectures and demonstrations in Home Economics was held. The short course in Household Science at Charlottetown was attended by 126 women and girls from the rural sections.

SCHOOL AGRICULTURE.

The equipment of the Rural Science department at Prince of Wales College has now been completed, and teachers are given a course of special training to enable them to teach elementary agriculture. The number in attendance was 272.

At the time of holding the Summer School, a Rural Life Conference was conducted, lasting two days. The attendance varied from 200 to 450.

Four school fairs were held during 1916, and plans are being made for the extension of the work over a wider field. A survey was made by school children to ascertain the number of sheep kept on the island. Much interest was stimulated among the children and valuable training resulted.

OFFICERS PROVIDED BY THE DOMINION GRANT.

Director of Agricultural Instruction, W. J. Reid, B.S.A.

District Representative, Queens County, W. R. Shaw, B.S.A.

" " Prince County, Leslie Tennant, B.S.A.

Director of Rural Science Department, Prince of Wales College, J. E. McLarty, B.S.A.

Director of Agricultural Instruction in Public Schools, Wm. Cain.

" " " Walter Curtis.

" " " D. S. Fraser,

" " " L. A. Adams.

Accountant, Miss A. W. Newbery.

2 Stenographers.

PRINCE EDWARD ISLAND.

GRANT OF 1916-17.

SUMMARY STATEMENT, April 1, 1916, to March 31, 1917.

No.	Classification.	Balance April 1, 1916.	Grant.	Ex- penditure.	Cr. Balance.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.
1	Capital account.....		500 00	470 30	29 70
2	Instructors, directors, superintendents and representatives.....		10,300 00	10,300 00	
3	Instruction and demonstration.....	258 07	3,000 00	3,258 07	
4	Women's Institutes.....	89 47	3,200 00	3,289 17	0 30
5	Elementary Agricultural Instruction in Public and High Schools.....	3 01	12,000 00	12,003 01	
6	Office assistance.....	17 63	1,200 00	1,217 63	
7	Contingencies.....		243 75	242 88	0 87
		368 18	30,443 75	30,781 06	30 87

1.—CAPITAL ACCOUNT.

	\$ cts.	\$ cts.
Grant, 1916 17 ..	500 00	
Expended to March 31, 1917.....		470 30
Balance forward.....		29 70
	500 00	500 00
Fencing—labour and materials.....		172 01
Furnishing and equipment.....		79 40
Ditcher and grader.....		103 82
Shearing machine.....		11 57
Miscellaneous expense.....		103 50
		470 30

The materials, labour, furnishings and equipment charged were incurred in connection with the new office at Montague. The fencing was erected at Prince of Wales College in connection with the Rural Science department.

2.—INSTRUCTORS, DIRECTORS AND DISTRICT REPRESENTATIVES.

	\$ cts.
Grant, 1916-17.....	10,300 00
<i>Salaries and Expenses—</i>	
J. L. Tennant.....	1,865 46
W. J. Reid.....	2,091 54
W. R. Reek.....	2,595 84
Theo. Ross.....	125 00
M. H. Coughlin.....	1,376 70
Walter Shaw.....	1,279 59
F. T. Morrow.....	83 34
J. E. McLarty.....	250 00
Miscellaneous travelling.....	359 05
Supplies and incidentals.....	273 48
	10,300 00

3.—INSTRUCTION AND DEMONSTRATION.

	\$ cts.	\$ cts.
Grant, 1916-17.....	3,000 00	
Balance forward, April 1, 1916.....	258 07	
Expenses to March 31, 1917.....		3,258 07
	3,258 07	3,258 07
<i>Services and Expenses—</i>		
J. T. Morrow.....	1,162 31	
J. M. Hughes.....	501 00	
R. B. Hooper.....	44 90	
J. R. McLean.....	50 00	
P. C. Gauthier.....	25 00	
B. Gallant, dairy instructor.....	77 75	
A. McRae.....	12 00	
W. R. Reek, travelling.....	146 44	
Sundry travelling.....	367 25	
Supplies and incidentals.....	361 20	
Printing and advertising.....	60 37	
Rural Conference expenses.....	77 55	
Investigation expense.....	98 00	
Rent, Summerside office....	180 00	
Insurance on buildings.....	94 30	
		3,258 07

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4.—WOMEN'S INSTITUTES.

	\$ cts.	\$ cts.
Grant, 1916-17.....	3,200 00	
Balance, April 1, 1916.....	89 47	
Expended to March 31, 1917.....		3,289 17
Balance carried forward.....		0 30
	<u>3,289 47</u>	<u>3,289 47</u>

Salaries.....		1,825 00
Travelling expenses.....		387 49
Supplies and incidentals.....		347 75
Convention and Short Course expenses.....		553 55
Printing and advertising.....		126 75
Institute grants.....		170 00
		<u>3,410 54</u>
Less refunds.....		121 37
		<u>3,289 17</u>

5.—AGRICULTURAL INSTRUCTION IN SCHOOLS.

	\$ cts.	\$ cts.
Grant, 1916-17.....	12,000 00	
Balance, April 1, 1916.....	3 01	
Expended to Mar. 31, 1917.....		12,003 01
	<u>12,003 01</u>	<u>12,003 01</u>

Salaries and Expenses—

S. B. McCready.....	1,198 05	
D. S. Fraser, inspector.....	996 56	
W. Curtis, inspector.....	1,025 96	
Leslie Adams, inspector.....	992 51	
Wm. Cain, inspector.....	1,014 96	
J. E. McLarty, inspector.....	763 78	
A. T. Houston, inspector.....	175 00	
Sundry persons, travelling.....	67 90	
		<u>6,234 72</u>
Printing and advertising.....	250 25	
Equipment and Library.....	108 50	
Supplies and incidentals.....	421 61	
Rural Conference—Speakers' expenses.....	231 60	
Grants to teachers for teaching agriculture.....	2,609 83	
Summer School of Science—Teachers' bonuses and travelling.....	1,596 50	
Instructors' salaries.....	550 00	
		<u>12,003 01</u>

6.—OFFICE ASSISTANCE.

	\$ cts.	\$ cts.
Grant, 1916-17.....	1,200 00	
Balance, April 1, 1916.....	17 63	
Expended to Mar. 31, 1917.....		1,217 63
	<u>1,217 63</u>	<u>1,217 63</u>

Salaries—

Adele W. Newbery.....	560 00
Bessie Alward.....	300 00
Florence Murdock.....	250 00
Adele Gordon.....	50 00
A. McFarlane.....	50 00
Postage.....	7 63
	<u>1,217 63</u>

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7. CONTINGENCIES.

	\$	cts.	\$	cts.
Grant, 1916-17.....		243 75		
Expended to Mar. 31, 1917.....			242	88
Balance forward.....				0 87
		<u>243 75</u>		<u>243 75</u>
Sundry travelling expenses.....		55 79		
Office expenses, supplies, and incidentals.....		193 27		
			249	06
Less—refunds.....				6 18
				<u>\$242 88</u>

COMPARATIVE STATEMENT of Expenditure of Provincial Funds for Agriculture.

	1913 to Dec. 31.	1914 to Dec. 31.	1915 to Dec. 31.	1916 to Dec. 31.	1917 Appropriations.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Farmers' Institutes.....	1,834 50	1,988 35	1,653 00	2,077 50	2,070 00
Field Crops, Horticulture, Dairying, and Poultry.....	987 86	1,148 19	939 27	2,562 28	3,000 00
Exhibitions, Association grants, and live stock judging.....	7,948 90	9,822 21	10,558 30	8,865 50	8,780 00
Miscellaneous, Dept. expenses.....	3,450 38	4,806 72	10,785 76	2,772 73	5,850 00
Totals.....	14,221 64	17,765 47	23,936 83	16,278 01	19,700 00

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VETERINARY COLLEGES.

The grant to Veterinary Colleges for the year 1916-17, was divided as follows, based on the number of students enrolled in the previous year who were British subjects:—

	Students, 1915-16.	Grants, 1916-17.
Ontario Veterinary College.....	145	\$14,285 72
School of Veterinary Science, Montreal.....	58	5,714 28

ONTARIO VETERINARY COLLEGE.

In December 1916, the grant of 1914-15, amounting to \$15,607.85, was paid to the Ontario Veterinary College. The financial statement follows, from November 1, 1916 to March 31, 1917:—

Balance on hand, October 31, 1916.....	\$	20 45
Grant.....		15,607 85
	\$	15,628 30
Contingencies—Postage, Stationery, temporary assistance, etc.....	\$357 18	
Equipment—Library supplies, laboratory supplies, etc.....	450 40	
Printing and advertising.....	291 36	
Services of lecturers, demonstrators, etc.—		
J. N. Pringle.....	\$257 10	
H. G. Wilson.....	128 52	
S. A. Cudmore.....	107 10	
J. E. Keyes.....	300 00	
	\$792 72	
		1,891 66
Balance on hand.....		\$13,736 64

STATEMENT OF ENROLMENT, 1916-17.

	First Year.	Second Year.	Third Year.
Ontario.....	15	21	20
Quebec.....	2	3	2
Nova Scotia.....	1	3	1
New Brunswick.....	0	1	0
P. E. Island.....	0	1	0
Manitoba.....	6	3	4
Saskatchewan.....	6	7	2
Alberta.....	1	2	1
British Columbia.....	1	0	0
South Africa.....	1	0	0
United States.....	8	6	15
Newfoundland.....	0	1	0
	41	48	45
British Subjects.....	105		
Foreign Countries.....	29		
Grand total of all students.....	134		

SCHOOL OF COMPARATIVE MEDICINE AND VETERINARY SCIENCE.

The grant to the school of Veterinary Science, Montreal, for the year 1916-17 amounted, based on the enrolment of 58 students, to the sum of \$5,714.28.

The following disbursements were charged to the grant:—

(1) Practical laboratory work and meat inspection.....	\$	664	28
(2) Applied on salaries account.....		5,065	00
	\$	5,729	28

The financial statement of the institution for the year ended June 30, 1917, was as follows:—

RECEIPTS.

	\$	cts.
Cash in bank, July 1, 1916.....	654	49
Students' fees.....	2,302	50
Provincial grant.....	3,500	00
Federal grant, "Agricultural Instruction Act ".....	5,729	28
Rental of Hospital.....	666	60
From Laval University.....	10,000	00
Diplomas.....	780	50
Sundry revenue.....	268	70
	\$23,902	07

DISBURSEMENTS.

Salaries of Professors.....	6,240	00
Salaries of Officers.....	2,178	00
Administration expense.....	456	22
Laboratory expense.....	664	10
Rental of hospital.....	1,002	28
Repayment of bank loan.....	1,000	00
To Laval University on land and building account.....	6,000	00
Light, heat, insurance.....	4,000	00
Sundry items.....	1,251	03
	22,791	63
Balance on hand.....	1,110	44
	\$23,902	07

STATEMENT OF ENROLMENT, 1916-17.

First year, number of students.....	18
Second year, " ".....	22
Third year, " ".....	22
Total.....	62